A. Site inventory

Date: , Time:

Inspector:

LANDOWNER:

OPERATOR:

AGID: FARM NAME: A+C Systma #2

LAGOON ID: 1 Lat: N46.37570 Long: W120.05396

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 67° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?	✓		
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	180'	60 } yrds
2. WSP - Inside Top – Average Length (ft)	160'	~~53~~ } yrds
3. WSP Storage Capacity (cu ft)	272,428 cu ft	~~@~~ 2.0 million
4. Embankment - Inside SS (X:1)		3:1
5. Embankment - Outside SS (Y:1)		3:1
6. Embankment – Top Width (ft)		10'
7. Combined Side Slope (Outside SS + Inside SS)		6:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		13'
10. Total Pond Depth (ft)		13'
11. Liner Type and Thickness (in)	Clay	
12. Inlet Type and Location	Pipe @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)	300'	~~100 yd~~
15. Failure Impacts; Farm Building, Homes, Roads, (Water Course)		
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)	300'	~~400 yd~~
18. Distance to Nearest Water Course (ft)		1/4 mile upgradient
WSP – STRUCTURE COMMENTS / NOTES		

A. Site inventory

Date: , Time:

Inspector:

LANDOWNER:

OPERATOR:

AGID: FARM NAME: A+C Systma #7

LAGOON ID: 2 Lat: N46.37622 Long: W120.05412

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 67°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	200'	~~600~~ yds
2. WSP - Inside Top – Average Length (ft)	260'	~~866~~
3. WSP Storage Capacity (cu ft)	584,168 cu ft	~~584~~ 4.36 million
4. Embankment - Inside SS (X:1)		4:1
5. Embankment - Outside SS (Y:1)		3:1
6. Embankment – Top Width (ft)		12'
7. Combined Side Slope (Outside SS + Inside SS)		7:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		13'
10. Total Pond Depth (ft)		13'
11. Liner Type and Thickness (in)	clay	
12. Inlet Type and Location	pipe @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		5:1
14. Distance to Nearest Well / Water Depth in well(ft)	360'	~~120 yd~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		berm
17. Distance to Nearest Home/Dwelling (ft)	360'	~~120 yds~~
18. Distance to Nearest Water Course (ft)		1/4 mile upgradient
WSP – STRUCTURE COMMENTS / NOTES		

POND CALCULATIONS

DAIRY WASTE LAGOON/POND CALCULATIONS	D= STORAGE	13		**AVERAGE AREA**		**Oct-09**
	S= SIDE SLOPE	2	:1			**A & C Sytsma Dairy II**
	L= LENGTH	195			143	INSIDE LENGTH
	W=WIDTH	150			98	INSIDE WIDTH
	AREA=FT^2 29,250				169	AVERAGE LENGTH
					124	AVERAGE WIDTH
POND #1	FT AVERAGE	20,956				
	CUBIC FT	272,428				
	GALLON CAPACITY	2,037,761				
	ACRE FEET	6.3		DEPTH IS THE STORAGE DEPTH OF LAGOON		
				LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS		
	D= STORAGE	13		**AVERAGE AREA**		
	S= SIDE SLOPE	2	:1			
POND #2	L= LENGTH	300			248	INSIDE LENGTH
	W=WIDTH	190			138	INSIDE WIDTH
	AREA=FT^2 57,000				274	AVERAGE LENGTH
					164	AVERAGE WIDTH
	FT AVERAGE	44,936				
	CUBIC FT	584,168		DEPTH IS THE STORAGE DEPTH OF LAGOON		
	GALLON CAPACITY	4,369,577		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS		
	ACRE FEET	13.4				
	D= STORAGE	0		**AVERAGE AREA**		
POND #3	S= SIDE SLOPE	0	:1			
	L= LENGTH	0			0	INSIDE LENGTH
	W=WIDTH	0			0	INSIDE WIDTH
	AREA=FT^2 0				0	AVERAGE LENGTH
					0	AVERAGE WIDTH
	FT AVERAGE	0				
	CUBIC FT	0		DEPTH IS THE STORAGE DEPTH OF LAGOON		
	GALLON CAPACITY	0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS		
	ACRE FEET	0.0				
	D= STORAGE	0		**AVERAGE AREA**		
POND #4	S= SIDE SLOPE	0	:1			
	L= LENGTH	0			0	INSIDE LENGTH
	W=WIDTH	0			0	INSIDE WIDTH
	AREA= 0				0	AVERAGE LENGTH
					0	AVERAGE WIDTH
	FT AVERAGE	0				
	CUBIC FT	0		DEPTH IS THE STORAGE DEPTH OF LAGOON		
	GALLON CAPACITY	0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS		
	ACRE FEET	0.0				

SURFACE AREA =	182,080 FT^2	6,407,338	GALLONS
TOTAL	182,080		

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 9:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Aaron Prins**

AGID: **17** FARM NAME: **Double P Dairy**

LAGOON ID: MAIN Lat: 46.25435 Long: 120.03544

Phones: Cell:

FARM ADDRESS: 1741 Holaday Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: _____

_____

Temperature: _____

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF) A. PRINS

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked "NO"; make notes of location and identify O & M task to improve management in REPORT section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		X	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POSSIBLE RODENT INSIDE BANK

EROSION NEAR IRRIGATION WATER INLET

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to ~~wave~~ WIND action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: EAST SIDE OF LAGOON INTERIOR SIGNS OF WIND EROSION

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

AARON PRINS MAIN

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	130 148 AVG
2. WSP - Inside Top – Average Length (ft)	229 247
3. WSP Storage Capacity (cu ft)	329,004 (2,460 950)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1 / 5:1
6. Embankment – Top Width (ft)	16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	9'
9. Maximum Excavation Depth (ft)	11'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in)	SOIL AMENDED CLAY / 12"
12. Inlet Type and Location	RIP RAP NO CONCRETE - NO EROSION
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4
18. Distance to Nearest Water Course (ft)	3/4 mi SULFUR CREEK WASTEWAY
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 10:30:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **John Banks, Jr**

AGID: **50** FARM NAME: **Riverview Ranch**

LAGOON ID: POND 1 Lat: 46.23183 Long: 119.98190

Phones: Cell:

FARM ADDRESS: 1220 Vance Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 48° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BANKS POND #1 DIVERSION

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?	✓		
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			✓
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME WIND EROSION ON SW EDGE NEAR CORRALS

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to ~~wave~~ WIND action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SW EDGE - SIMILAR TO POND #2 - SOME EROSION

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

RIVERVIEW

LAGOON 1.

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	138
2. WSP - Inside Top – Average Length (ft)	168
3. WSP Storage Capacity (cu ft)	226,688 (1,695,626)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	NA
6. Embankment – Top Width (ft)	16' TO 8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	8
9. Maximum Excavation Depth (ft)	10
10. Total Pond Depth (ft)	9
11. Liner Type and Thickness (in)	CLAY AMENDED - 12"
12. Inlet Type and Location	PVC - NO CEMENT
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MI / 150' DEEP
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	DRY LOT / FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	1/2 MILE YAKIMA RIVER

WSP – STRUCTURE COMMENTS / NOTES
TRANSFER CULVERT B/W SETTLING BASIN & CORRALL IS
UNDER REPAIR - BY END OF MAY 2015

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 10:30:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **John Banks, Jr**

AGID: **50** FARM NAME: **Riverview Ranch**

LAGOON ID: POND #2 Lat: 46.23193 Long: 119.98219

Phones: Cell:

FARM ADDRESS: 1220 Vance Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

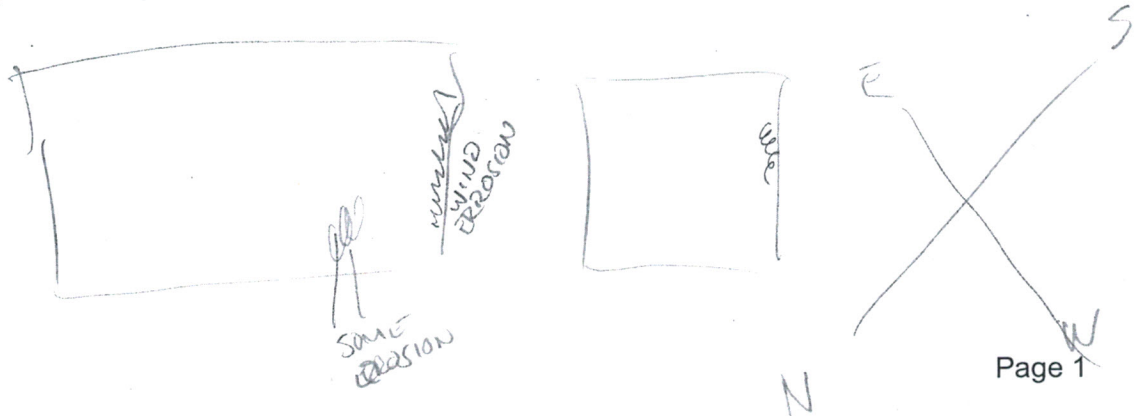
☑ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 48° F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND #2 BANKS-RIVERVIEW

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION @ INLET

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One) ? NRCS STANDARDS			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to ~~wave~~ WIND action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: ON SW EDGE - WIND EROSION

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

RIVERVIEW - JOHN BANK
POND # 2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	128
2. WSP - Inside Top – Average Length (ft)	168
3. WSP Storage Capacity (cu ft)	270,848 / 2,750,943
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	16+
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	8'
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	9
11. Liner Type and Thickness (in)	CLAY AMENDED
12. Inlet Type and Location	PVC - NO CONCRETE
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 / 150'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	DRY LOT / FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	1/2 MILE YAKIMA RIVER
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 11:30:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Arturo Perez Salazar**

AGID: **59** FARM NAME: **Familia Salazar Dairy**

LAGOON ID: POND 1 Lat: 46.19987 Long: 119.93027

Phones: Cell:

FARM ADDRESS: 1070 Buss Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2.5 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

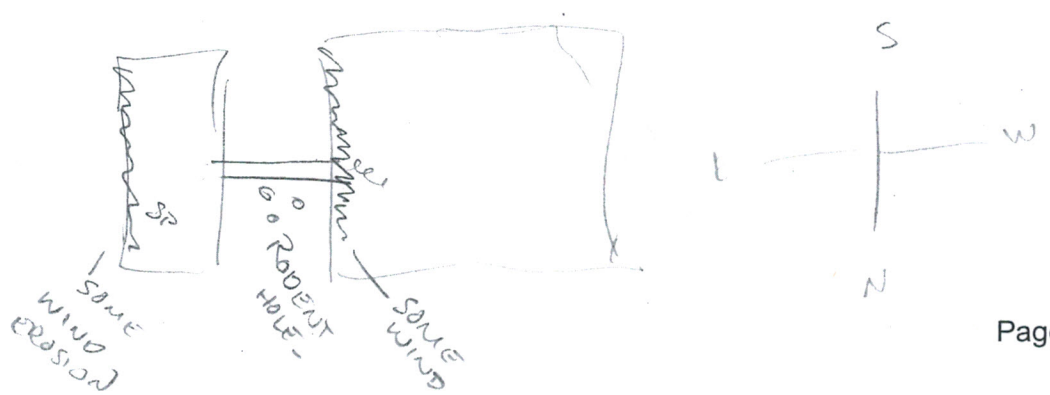
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 53°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SALAZAR POND #1

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?	X		
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: B/W POND 1 & SETTLING POND- SOME RODENT & SOME WIND EROSION ON EAST BANK

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to ~~wave~~ WIND action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: WIND ON EAST BANK

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND #1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	10
2. WSP - Inside Top – Average Length (ft)	57
3. WSP Storage Capacity (cu ft)	380,113 (285,082)
4. Embankment - Inside SS (X:1)	1.5:1
5. Embankment - Outside SS (Y:1)	
6. Embankment – Top Width (ft)	8' B/W PONDS
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	6'
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	7
11. Liner Type and Thickness (in)	12" / CLAY
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	150'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	TRUCK YARD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	150'
18. Distance to Nearest Water Course (ft)	YAKIMA RVR - 3 MI NORTH
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 11:30:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Arturo Perez Salazar**

AGID: **59** FARM NAME: **Familia Salazar Dairy**

LAGOON ID: SETTLING POND #2 Lat: 46.2004 Long: 119.93005

Phones: Cell:

FARM ADDRESS: 1070 Buss Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 15 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2.5 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 83°

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SALAZAR POND #2

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			
WSP Inventory Completed by				
Name:			JAA	
Signature:			Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X MINIMAL		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?	X		
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: AGITATION & INLET AREAS SHOW SIGNS OF EROSION

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to ~~wave~~ WIND action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND #2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	22
2. WSP - Inside Top – Average Length (ft)	92
3. WSP Storage Capacity (cu ft)	7170 (53,000)
4. Embankment - Inside SS (X:1)	1:1
5. Embankment - Outside SS (Y:1)	NA
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	4'
9. Maximum Excavation Depth (ft)	6'
10. Total Pond Depth (ft)	5'
11. Liner Type and Thickness (in)	CLAY = 12"
12. Inlet Type and Location	PVC=NO CEMENT
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	150'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	EQUIPMENT YARD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	150
18. Distance to Nearest Water Course (ft)	YAKIMA RVR 3 MI NORTH
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 9:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Jacob Veldhuis**

AGID: **2003** FARM NAME: ~~**Frieslandia Dairy LLC**~~ Klompe

LAGOON ID: Klompe 2-West Lat: N46.27272 Long: W119.96981

Phones: Cell:

FARM ADDRESS: 2371 Stover Rd, Grandview, WA

REVIEW INVENTORY DATE: 4/14/15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 15 FT.

Completed by: Dan Mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/14/15

Weather: Sunny / windy

Temperature: 52° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?		✓	
	If applicable; Are perimeter drain(s) plugged or blocked?	✓		✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	60 yds ~~180'~~ 200'
2. WSP - Inside Top – Average Length (ft)	99 yds 340'
3. WSP Storage Capacity (cu ft)	5 million gals
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	15
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	0
9. Maximum Excavation Depth (ft)	18'
10. Total Pond Depth (ft)	18'
11. Liner Type and Thickness (in) liner	
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	
14. Distance to Nearest Well / Water Depth in well(ft)	20 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft)	20 yds
18. Distance to Nearest Water Course (ft)	50 yds
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 9:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Jacob Veldhuis**

AGID: **2003** FARM NAME: **Frieslandia Dairy LLC**

LAGOON ID: 1 Lat: N46.27468 Long: W119.96152

Phones: Cell:

FARM ADDRESS: 2371 Stover Rd, Grandview, WA

REVIEW INVENTORY DATE: 4/14/15

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/14/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny / windy

Temperature: 50°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.	✓		
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	175'	~~58 yds~~
2. WSP - Inside Top – Average Length (ft)	550'	~~183 yds~~
3. WSP Storage Capacity (cu ft)		6023.633 cu ft
4. Embankment - Inside SS (X:1)		3:1
5. Embankment - Outside SS (Y:1)		2:1
6. Embankment – Top Width (ft)		20'
7. Combined Side Slope (Outside SS + Inside SS)		5:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		8.5'
10. Total Pond Depth (ft)		8.5'
11. Liner Type and Thickness (in)	Clay	
12. Inlet Type and Location	pipe @ CFS	
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)	150'	~~50 yds~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		Berms
17. Distance to Nearest Home/Dwelling (ft)	150'	~~50 yds~~
18. Distance to Nearest Water Course (ft)	225'	~~75 yds~~

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 9:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Jacob Veldhuis**

AGID: **2112** FARM NAME: **Klompe Dairy (Veldhuis Dairy)**

LAGOON ID: 1 - East Lat: N46.271199 Long: W119.96852

Phones: Cell:

FARM ADDRESS: 650 Hornby Rd, Grandview, WA

REVIEW INVENTORY DATE: 4-14-15

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan Mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

[X] WSP is FULL (Typically late winter or early spring)

DATE: 4/14/15

[ ] WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny / windy

Temperature: 52°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan M	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	100 yds 300'
2. WSP - Inside Top – Average Length (ft)	93 yds 280'
3. WSP Storage Capacity (cu ft)	914,112 cuft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	12'
10. Total Pond Depth (ft) ~~clay~~	12'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	50 yds
15. Failure Impacts; Farm Building, (Homes), Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. ((yes)/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft)	50 yds
18. Distance to Nearest Water Course (ft)	50 yds
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 8:00:00 AM

Inspector: CS/DM

LANDOWNER:

EAST #1. 70 x 118 P N: 46.49760 W: 120.18708

WEST #2. 60 x 118 P. N 46.49754 W 120.18762

OPERATOR: **Tom DeVries**

AGID: **2020** FARM NAME: **DeVries Family Dairy**

N 46.49776

LAGOON ID: MAIN (MAIN) Lat: 46.49776 Long: W 120.18749

Phones: 509 469 3443 Cell:

FARM ADDRESS: 15720 Highway 24, Moxee, WA

REVIEW INVENTORY DATE: 03.06.15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: **Agency DNMP/WSDA**

#WEST 3/4 FULL EAST 3/4 FULL

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

MAIN 1/2 FULL

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: CLOUDY - SHOWERS

Temperature: 41° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

MAIN

NRCS

(SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

DEVRIES

NA

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?		X	
	Date design ~~of modification~~	2000		
	Designer (If applicable)	MARK WESMILLER		
2	Date of ~~modification~~ construction	2000		
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?		X	
	All recycling pumps and transfer pipes are functional?		X	
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

MAIN

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft)	OUTSIDE / INSIDE
2. WSP - Inside Top – Average Length (ft)	600 FT / 408 FT 600 FT / 408 FT
3. WSP Storage Capacity (cu ft)	10,096,384 (45,600 MSL)
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	4'
7. Combined Side Slope (Outside SS + Inside SS)	"
8. Embankment – Maximum Fill Height (ft)	24'
9. Maximum Excavation Depth (ft)	26'
10. Total Pond Depth (ft)	25
11. Liner Type and Thickness (in)	SOIL AMENDED LINER BENTONITE CLAY / 6" W/ 6" OVER BURDEN TO PROTECT LINER
12. Inlet Type and Location	PVC W/ CEMENT RUNNER SOUTH W CORNER
13. WSP Interior-Outlet Ramp Slope (z:1)	4:1
14. Distance to Nearest Well / Water Depth in well(ft)	200' TO IRR. WELL 400' DEEP
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	TYPE 5 STREAM / INTERMITTENT TO FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP TO CIRCLES OR TO TANKERS
17. Distance to Nearest Home/Dwelling (ft)	3/4 MILE
18. Distance to Nearest Water Course (ft)	351' - TYPE 5 WTR COURSE

WSP – STRUCTURE COMMENTS / NOTES

NO EQUIPMENT - FLOATING PUMP AGITATOR, NO BANK EROSION

A. Site inventory

Date: 04.06.15 Time: 8 am

Inspector: C.S.

LANDOWNER:

OPERATOR: Tom DeVries

AGID: 2020 FARM NAME: DeVries Family Farm

LAGOON ID: West Lat: 46.49754 Long: 120.18762

Phones: Cell:

FARM ADDRESS:

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: [redacted] **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: [redacted]

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: [redacted]

Weather: Cloudy/Showers

Temperature: 41° F

Soil surface: dry, (moist), wet, saturated, standing water, frozen, snow covered

West Settling Pond
DeVries N. 46.49754
W 120.18762

NRCS

(SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

DeVries
NA

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?		X	
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		X	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

WEST

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	170
2. WSP - Inside Top – Average Length (ft)	310
3. WSP Storage Capacity (cu ft)	417,924 (3,126,072 GAL)
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	5'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	19'
9. Maximum Excavation Depth (ft)	21'
10. Total Pond Depth (ft)	20'
11. Liner Type and Thickness (in)	SEE MAIN
12. Inlet Type and Location	PVC W/ CEMENT RINNCE
13. WSP Interior-Outlet Ramp Slope (z:1)	4:1
14. Distance to Nearest Well / Water Depth in well(ft)	SEE MAIN
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	"
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	OVERFLOW TO MAIN
17. Distance to Nearest Home/Dwelling (ft)	3/4 MILE
18. Distance to Nearest Water Course (ft)	TYPE V WATERWAY 600'

WSP – STRUCTURE COMMENTS / NOTES
ACC. PUMP CAN BE MOVED TO SETTLING POND TO ALLOW FOR EMERGENCY PUMPING.

A. Site inventory

Date: 04.06.15 Time: 8 AM

Inspector: C.S.

LANDOWNER:

OPERATOR: TOM DEVRIES

AGID: 2020 FARM NAME: DEVRIES FAMILY FARM

LAGOON ID: EAST Lat: 46.49760 Long: 120.18788

Phones: Cell:

FARM ADDRESS:

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: [redacted] **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: [redacted]

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: [redacted]

Weather: CLOUDY / SHOWERS

Temperature: 41° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

DeVries East N. 46.49760 W. 120.18708

NRCS

(SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

DeVries

NA

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?		X	
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SETTLING POND CLEANED IN FALL & APPLIED

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

EAST

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	190
2. WSP - Inside Top – Average Length (ft)	315
3. WSP Storage Capacity (cu ft)	512,278 CU FT / 3,831,839 GALLONS
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	17
9. Maximum Excavation Depth (ft)	19
10. Total Pond Depth (ft)	18
11. Liner Type and Thickness (in)	SEE MAIN
12. Inlet Type and Location	"
13. WSP Interior-Outlet Ramp Slope (z:1)	4:1
14. Distance to Nearest Well / Water Depth in well(ft)	SEE MAIN
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	"
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	OVERFLOW OPENING TO SEND TO MAIN WSP
17. Distance to Nearest Home/Dwelling (ft)	3/4 MILE
18. Distance to Nearest Water Course (ft)	TYPE V - 600'

WSP – STRUCTURE COMMENTS / NOTES
AG.-PUMP CAN BE MOVED IN TO ALLOW FOR EMERGENCY PUMPING

A. Site inventory

Date: Monday April, 6, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **John Prins**

AGID: **2052** FARM NAME: **John Prins Dairy #2**

LAGOON ID: MAIN Lat: 46.33746 Long: 120.14892

Phones: Cell:

FARM ADDRESS: 931 Gap Rd, Granger, WA

REVIEW INVENTORY DATE: 04.06.15

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

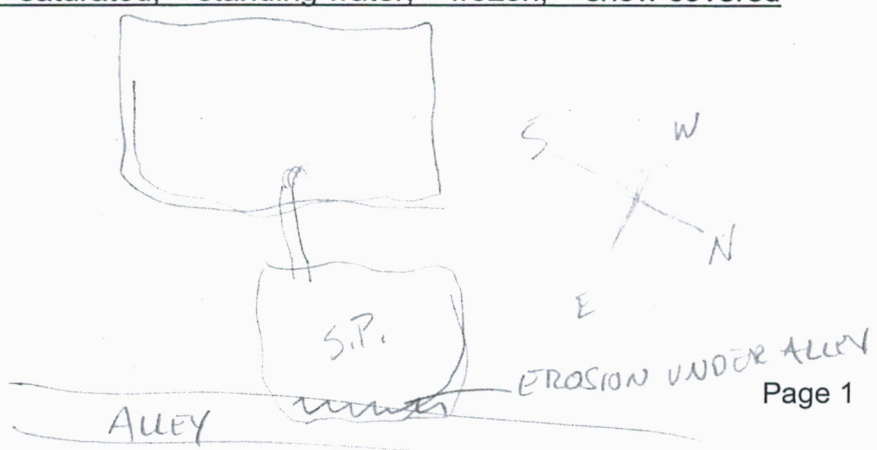
☑ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 63°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF) PRINS #2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: * CHECK EROSION FOR SETTLING BASIN UNDER CEMENT ALLEY WAY.

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

PR1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	86'
2. WSP - Inside Top – Average Length (ft)	206'
3. WSP Storage Capacity (cu ft)	270,864 (2,260,063 gal)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1 / 3:1
6. Embankment – Top Width (ft)	11' / 8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	11
9. Maximum Excavation Depth (ft)	13
10. Total Pond Depth (ft)	12
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC, PAST BANK
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	TO BERMED FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	200'
18. Distance to Nearest Water Course (ft)	1/3 MILE / ACROSS FREEWAY

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Art Mensonides**

AGID: **2056** FARM NAME: **Mensonides Dairy LLC** MAIN POND LINED.

LAGOON ID: POND 1 MAIN Lat: 46.18602 Long: 119.92813

Phones: Cell:

FARM ADDRESS: 305 S Fisher Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

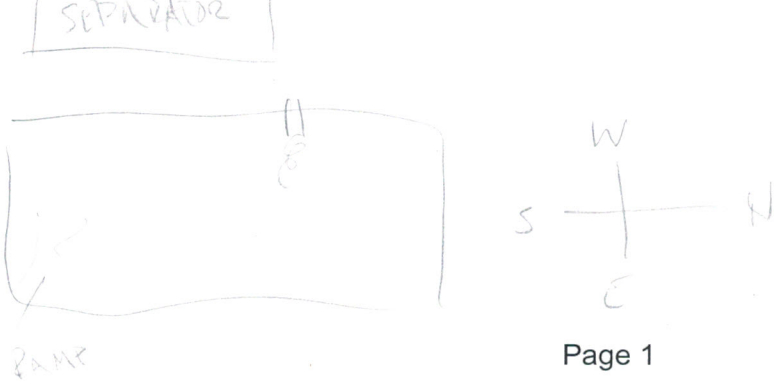
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 45°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

MAIN POND

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	250'
2. WSP - Inside Top – Average Length (ft)	413
3. WSP Storage Capacity (cu ft)	3,668,647 (27,441,477)
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	24'
9. Maximum Excavation Depth (ft)	28'
10. Total Pond Depth (ft)	26'
11. Liner Type and Thickness (in)	HDPE
12. Inlet Type and Location	PVC TO CONCRETE SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	PASTURE / CORRAL
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1 MI
18. Distance to Nearest Water Course (ft)	TYPE V WEST 400 YDS,
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Art Mensonides**

AGID: **2056** FARM NAME: **Mensonides Dairy LLC** POND 1

LAGOON ID: Lat: 46.17858 Long: 119.92759

Phones: Cell:

FARM ADDRESS: 305 S Fisher Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

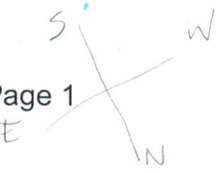
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: OVERCAST

Temperature: 50°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 1 (SETTLING BASIN)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?		✓	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME RODENT HOLES ON SOUTH EDGE BY WATER

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			O
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	128
2. WSP - Inside Top – Average Length (ft)	572
3. WSP Storage Capacity (cu ft)	1458,576 (10,910,148)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	20' +
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	15
9. Maximum Excavation Depth (ft)	17
10. Total Pond Depth (ft)	16
11. Liner Type and Thickness (in)	CLAY AMENDED / 12"
12. Inlet Type and Location	PVC INLET TO CONCRETE
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	PASTURE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	~~CONTROLS~~ PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1 MILE
18. Distance to Nearest Water Course (ft)	TYPE V WTRWAY 1/4 MI
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Art Mensonides**

AGID: **2056** FARM NAME: **Mensonides Dairy LLC** POND 2

LAGOON ID: POND 2 Lat: 46.17851 Long: 119.92725

Phones: Cell:

FARM ADDRESS: 305 S Fisher Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: OVERCAST

Temperature: 50°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

MENSONIDES POND 2

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 2 (SETTLING BASIN)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	138
2. WSP - Inside Top – Average Length (ft)	528
3. WSP Storage Capacity (cu ft)	2,485,350 (18,590,418)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	B/W POND 1 + 3 / 3:1
6. Embankment – Top Width (ft)	20+
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	22
9. Maximum Excavation Depth (ft)	24
10. Total Pond Depth (ft)	23
11. Liner Type and Thickness (in)	CLAY AMENDED, 12"
12. Inlet Type and Location	PVC TO POND
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRAL & PASTURE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1 MI
18. Distance to Nearest Water Course (ft)	1/4 MI TYPE T WATERWAY
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Art Mensonides**

AGID: **2056** FARM NAME: **Mensonides Dairy LLC**

POND 3 (IRRIGATION)

LAGOON ID: Lat: 46.17858 Long: 119.92635

Phones: Cell:

FARM ADDRESS: 305 S Fisher Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: _____

_____

Temperature: _____

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

MENSONIDES – POND 3 (IRRIGATION)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	98
2. WSP - Inside Top – Average Length (ft)	528
3. WSP Storage Capacity (cu ft)	1,988,910 (14,877,047)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	LEVEL TO 3:1
6. Embankment – Top Width (ft)	20+'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	22
9. Maximum Excavation Depth (ft)	24
10. Total Pond Depth (ft)	23
11. Liner Type and Thickness (in)	CLAY AMENDED, 12"
12. Inlet Type and Location	PVC TO CONCRETE
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRAL & PASTURE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1 MI
18. Distance to Nearest Water Course (ft)	1/4 MI TYPE J
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Art Mensonides**

AGID: **2056** FARM NAME: **Mensonides Dairy LLC** BASIN ABOVE POND #3

LAGOON ID: Lat: 46.18541 Long: 119.93427

Phones: Cell:

FARM ADDRESS: 305 S Fisher Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

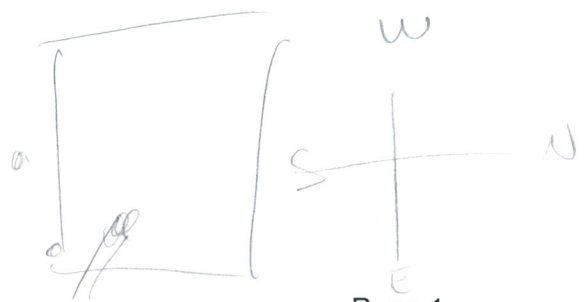
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: OVERCAST

Temperature: 50°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

MENSONIDES BASIN ABOVE POND #3

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL EVIDENCE ON S. EDGE

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BASIN ABOVE POND 3

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	77
2. WSP - Inside Top – Average Length (ft)	91
3. WSP Storage Capacity (cu ft)	148,709 (1,112,343)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1 TO LEVEL
6. Embankment – Top Width (ft)	16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	12
9. Maximum Excavation Depth (ft)	12 14
10. Total Pond Depth (ft)	14 13
11. Liner Type and Thickness (in)	HDPE LINED / 12" (40 MIL)
12. Inlet Type and Location	PVC TO CEMENT
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	3/4
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FEED STORAGE & PASTURE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	3/4
18. Distance to Nearest Water Course (ft)	1/4 MILE TO TYPE V
WSP – STRUCTURE COMMENTS / NOTES	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Dan De Groot**

AGID: **2094** FARM NAME: **Skyridge Farm #1 and #2**

LAGOON ID: Primary / SB Lat: N46. 38654 Long: W120. 02643

Phones: Cell:

FARM ADDRESS: 4701 Scoon Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 38°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	55 yds 165'
2. WSP - Inside Top – Average Length (ft)	62 yds 185'
3. WSP Storage Capacity (cu ft)	182,190 cu ft.
4. Embankment - Inside SS (X:1)	Too full
5. Embankment - Outside SS (Y:1)	N/A
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	0
9. Maximum Excavation Depth (ft)	16'
10. Total Pond Depth (ft)	16'
11. Liner Type and Thickness (in)	Clay
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	
17. Distance to Nearest Home/Dwelling (ft)	
18. Distance to Nearest Water Course (ft)	

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Dan De Groot**

AGID: **2094** FARM NAME: **Skyridge Farm #1 and #2**

LAGOON ID: 1 Lat: N46.38634 Long: W120.02592

Phones: Cell:

FARM ADDRESS: 4701 Scoon Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 35 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 38°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	68 yds 204
2. WSP - Inside Top – Average Length (ft)	96 yds 288
3. WSP Storage Capacity (cu ft)	508, 440 cuft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	16'
10. Total Pond Depth (ft)	16'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	
17. Distance to Nearest Home/Dwelling (ft)	
18. Distance to Nearest Water Course (ft)	

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Dan De Groot**

AGID: **2094** FARM NAME: **Skyridge Farm #1 and #2**

LAGOON ID: 2 Lat: N46.38585 Long: W120.02657

Phones: Cell:

FARM ADDRESS: 4701 Scoon Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 12 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 38°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

Starridge 2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	88 yds 265'
2. WSP - Inside Top – Average Length (ft)	63 yds 190'
3. WSP Storage Capacity (cu ft)	432,642 cuft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	—
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	3:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	15'
10. Total Pond Depth (ft)	15'
11. Liner Type and Thickness (in)	clay @ ~~EPS~~
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	438 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Dan De Groot**

AGID: **2094** FARM NAME: **Skyridge Farm #1 and #2**

LAGOON ID: 3 Lat: N 46.38602 Long: W120.02737

Phones: Cell:

FARM ADDRESS: 4701 Scoon Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 12 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 38°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
	Was the WSP modification designed by a qualified individual?			
1	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	131 yds 400'
2. WSP - Inside Top – Average Length (ft)	131 yds 400'
3. WSP Storage Capacity (cu ft)	1,993,349 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	—
6. Embankment – Top Width (ft)	20'
7. Combined Side Slope (Outside SS + Inside SS)	4:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	20'
10. Total Pond Depth (ft)	20'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipes @ 6PS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	436 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	450 yds
18. Distance to Nearest Water Course (ft)	335 yds
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	16		AVERAGE AREA	Skyridge Farms	
	FB=FREEBOARD	1			December-07	
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	190				
	EW=POND WIDTH	140				
	LL=LIGUID LENGTH	184				
	LW=LIQUID WIDTH	134				
	LD=LIQUID DEPTH	15				
LAGOON/POND CALCULATIONS				94	INSIDE LENGTH	
				44	INSIDE WIDTH	
	AREA=FT^2	26,600		142	AVERAGE LENGTH	
				92	AVERAGE WIDTH	
POND #1	FT AVERAGE	13,064				
	CUBIC FT	182,190				
	GALLON CAPACITY	1,362,781				
	ACRE FEET	4.2				

DAIRY WASTE	ED= POND DEPTH	16		AVERAGE AREA		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	280				
	EW=POND WIDTH	200				
	LL=LIGUID LENGTH	274				
	LW=LIQUID WIDTH	194				
	LD=LIQUID DEPTH	15				
LAGOON/POND CALCULATIONS				184	INSIDE LENGTH	
				104	INSIDE WIDTH	
	AREA=FT^2	56,000		232	AVERAGE LENGTH	
				152	AVERAGE WIDTH	
POND #2	FT AVERAGE	35,264				
	CUBIC FT	508,440				
	GALLON CAPACITY	3,803,131				
	ACRE FEET	11.7				

DAIRY WASTE	ED= POND DEPTH	15		AVERAGE AREA		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	275				
	EW=POND WIDTH	185				
	LL=LIGUID LENGTH	269				
	LW=LIQUID WIDTH	179				
	LD=LIQUID DEPTH	14				
LAGOON/POND CALCULATIONS				185	INSIDE LENGTH	
				95	INSIDE WIDTH	
	AREA=FT^2	50,875		230	AVERAGE LENGTH	
				140	AVERAGE WIDTH	
POND #3	FT AVERAGE	32,200				
	CUBIC FT	432,642				
	GALLON CAPACITY	3,236,162				
	ACRE FEET	9.9				

DAIRY WASTE		ED= POND DEPTH		20	POND	**AVERAGE AREA**	
		FB=FREEBOARD		3			
		S=SIDE SLOPE		3	:1		
		EL=POND LENGTH		435			
		EW=POND WIDTH		390			
		LL=LIGUID LENGTH		417			
		LW=LIQUID WIDTH		372			
		LD=LIQUID DEPTH		17			
LAGOON/POND							
CALCULATIONS						315	INSIDE LENGTH
						270	INSIDE WIDTH
		AREA=FT^2	169,650			375	AVERAGE LENGTH
						330	AVERAGE WIDTH
POND #4		FT AVERAGE		123,750			
		CUBIC FT		1,992,349			
		GALLON CAPACITY		14,902,771			
		ACRE FEET		45.7			

DAIRY WASTE		ED= POND DEPTH				**AVERAGE AREA**	
		FB=FREEBOARD					
		S=SIDE SLOPE		3	:1		
		EL=POND LENGTH					
		EW=POND WIDTH					
		LL=LIGUID LENGTH		0			
		LW=LIQUID WIDTH		0			
		LD=LIQUID DEPTH		0			
LAGOON/POND							
CALCULATIONS						0	INSIDE LENGTH
						0	INSIDE WIDTH
		AREA=FT^2	0			0	AVERAGE LENGTH
						0	AVERAGE WIDTH
		FT AVERAGE		0			
		CUBIC FT		0			
		GALLON CAPACITY		0			
		ACRE FEET		$ -			

SURFACE AREA =		303,125		23,304,845	GALLONS		

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

SUNNY DENE HORSE HEAVEN

OPERATOR: **William J Wavrin**

AGID: ~~2097~~ 2097 FARM NAME: **Sunny Dene Ranch II III IV**

LAGOON ID: Lat: 46.16658 Long: 120.03940

Phones: Cell:

FARM ADDRESS: ~~1671~~ 2501 Boundary Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 40 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 12 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DISTANCE TO WELL 1/2 MILE.

HOUSE 1/4 MILE.

DATE:

Weather: SUNNY

Temperature: 590

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNY DENE HORSE HEAVEN

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: 22 FOOT DAM WALL BUILT PER DAM SAFETY SPECS

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1?
5. Embankment - Outside SS (Y:1)	TO GULLY - 4:1
6. Embankment – Top Width (ft)	
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/2 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	TO GULLY & ROADWAY
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MI
18. Distance to Nearest Water Course (ft)	

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: , Time:

Inspector:

LANDOWNER:

OPERATOR:

AGID: FARM NAME: A & C Sytsma #1

LAGOON ID: 1 Lat: N 46.34245 Long: W120.04951

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan M? **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

[X] WSP is FULL (Typically late winter or early spring)

DATE:

[ ] WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 67° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: Weeds are grown up

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	160'	~~52 yrds~~
2. WSP - Inside Top – Average Length (ft)	500'	~~1640 yrds~~
3. WSP Storage Capacity (cu ft)	864,000 cu ft	0.46 million
4. Embankment - Inside SS (X:1)		3:1
5. Embankment - Outside SS (Y:1)		4:1
6. Embankment – Top Width (ft)		12'
7. Combined Side Slope (Outside SS + Inside SS)		7:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		10'
10. Total Pond Depth (ft)		10'
11. Liner Type and Thickness (in)	Clay	
12. Inlet Type and Location	Pipe @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)	450'	~~150 yd~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)	450'	~~150 yards~~
18. Distance to Nearest Water Course (ft)		1/2 miles S
WSP – STRUCTURE COMMENTS / NOTES		

A. Site inventory

Date: , Time:

Inspector:

LANDOWNER:

OPERATOR:

AGID: FARM NAME: A & C System #1

LAGOON ID: 2 Lat: N 46.34336 Long: W 120. 04764

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: Dan NMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 67°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
	Was the WSP modification designed by a qualified individual?			
1	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
	Description of structural modification:			
3				
	Did the modification meet the NRCS practice standard in place at the time of construction?			
	Describe impact of the modification on structural integrity:			
4				
	Describe impact of the modification on storage depth and storage volume:			
5				

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	270'	90 yards
2. WSP - Inside Top – Average Length (ft)	500'	~~160~~
3. WSP Storage Capacity (cu ft)	1,321,232 cu ft	9.88 million
4. Embankment - Inside SS (X:1)		4:1
5. Embankment - Outside SS (Y:1)		4:1
6. Embankment – Top Width (ft)		20'
7. Combined Side Slope (Outside SS + Inside SS)		8:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		8.5'
10. Total Pond Depth (ft)		8.5'
11. Liner Type and Thickness (in)	clay	
12. Inlet Type and Location	pipe	@ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)	450'	~~150~~ yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		berm
17. Distance to Nearest Home/Dwelling (ft)	450'	~~150~~ yards
18. Distance to Nearest Water Course (ft)		1/2 mile South

WSP – STRUCTURE COMMENTS / NOTES

POND CALCULATIONS

DAIRY WASTE		D= STORAGE		10		**AVERAGE AREA**	**Jul-05**
LAGOON/POND		S= SIDE SLOPE		2	:1	A & C Sytsma	
CALCULATIONS		L= LENGTH		500		460	INSIDE LENGTH
		W=WIDTH		200		160	INSIDE WIDTH
		AREA=FT^2	100,000			480	AVERAGE LENGTH
						180	AVERAGE WIDTH
POND #1		FT AVERAGE		86,400			
		CUBIC FT		864,000			
		GALLON CAPACITY		6,462,720			
		ACRE FEET		19.8		DEPTH IS THE STORAGE DEPTH OF LAGOON	
						LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		D= STORAGE		8.5		**AVERAGE AREA**	
		S= SIDE SLOPE		2	:1		
POND # 2		L= LENGTH		530		496	INSIDE LENGTH
		W=WIDTH		320		286	INSIDE WIDTH
		AREA=FT^2	169,600			513	AVERAGE LENGTH
						303	AVERAGE WIDTH
		FT AVERAGE		155,439			
		CUBIC FT		1,321,232		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY		9,882,812		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET		30.3			
		D= STORAGE		4		**AVERAGE AREA**	
SETTLING		S= SIDE SLOPE		2	:1		
BASINS		L= LENGTH		350		334	INSIDE LENGTH
		W=WIDTH		25		9	INSIDE WIDTH
		AREA=FT^2	8,750			342	AVERAGE LENGTH
						17	AVERAGE WIDTH
		FT AVERAGE		5,814			
		CUBIC FT		23,256		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY		173,955		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET		0.5			
		D= STORAGE		0		**AVERAGE AREA**	
		S= SIDE SLOPE		0	:1		
		L= LENGTH		0		0	INSIDE LENGTH
		W=WIDTH		0		0	INSIDE WIDTH
		AREA=	0			0	AVERAGE LENGTH
						0	AVERAGE WIDTH
		FT AVERAGE		0			
		CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET		0.0			
SURFACE AREA =		278,350		16,519,487	GALLONS		

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 8:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Joe Rollinger**

AGID: **2125** FARM NAME: **J & L Rollinger Farms**

LAGOON ID: 1 Lat: N 46.30645 Long: W ~~120.~~ 119.96053

Phones: Cell:

FARM ADDRESS: 840 E Allen Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 35° F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	~~39 yards~~ / 124'
2. WSP - Inside Top – Average Length (ft)	~~94 yards~~ 300'
3. WSP Storage Capacity (cu ft)	237,600 cu ft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	N/A
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft)	1/4 mile
18. Distance to Nearest Water Course (ft)	1/4 mile

WSP – STRUCTURE COMMENTS / NOTES

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	10		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1	**ROLLINGER**		
	EL=POND LENGTH	306		**August-11**		
	EW=POND WIDTH	130				
	LL=LIGUID LENGTH	300				
	LW=LIQUID WIDTH	124				
	LD=LIQUID DEPTH	9				
LAGOON/POND CALCULATIONS					246	INSIDE LENGTH
					70	INSIDE WIDTH
	AREA=FT^2	39,780			276	AVERAGE LENGTH
					100	AVERAGE WIDTH
POND #1	FT AVERAGE	27,600				
	CUBIC FT	237,600				
	GALLON CAPACITY	1,777,248				
	ACRE FEET	5.5				

DAIRY WASTE	ED= POND DEPTH	6		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	1	:1			
	EL=POND LENGTH	75				
	EW=POND WIDTH	20				
	LL=LIGUID LENGTH	73				
	LW=LIQUID WIDTH	18				
	LD=LIQUID DEPTH	5				
LAGOON/POND CALCULATIONS					63	INSIDE LENGTH
					8	INSIDE WIDTH
	AREA=FT^2	6,000			69	AVERAGE LENGTH
Settling Basins					14	AVERAGE WIDTH
	FT AVERAGE	966				
(Four)	CUBIC FT	4,628				
	GALLON CAPACITY	34,620	each	103,860		
	ACRE FEET	0.1				

DAIRY WASTE	ED= POND DEPTH			**AVERAGE AREA**		
	FB=FREEBOARD					
	S=SIDE SLOPE	4	:1			
	EL=POND LENGTH					
	EW=POND WIDTH					
	LL=LIGUID LENGTH	0				
	LW=LIQUID WIDTH	0				
	LD=LIQUID DEPTH	0				
LAGOON/POND CALCULATIONS					0	INSIDE LENGTH
					0	INSIDE WIDTH
	AREA=FT^2	0			0	AVERAGE LENGTH
					0	AVERAGE WIDTH
POND #2	FT AVERAGE	0				
	CUBIC FT	0				
	GALLON CAPACITY	0				
	ACRE FEET	$ -				

SURFACE AREA =	45,780	1,881,108	GALLONS	GROSS STORAGE

A. Site inventory

Date: TUES APRIL 7, 2015 Time: 1:00 PM

Inspector: C.S.

LANDOWNER: WILLIAM J. WAVERIN

OPERATOR: ← SID

AGID: FARM NAME: SUNNY DENE II & IV – @ WINDCREST

2194 / 9844

LAGOON ID: LINED Lat: 46.19497 Long: 120.01950

Phones: Cell:

FARM ADDRESS: 1671 BOUNDARY RD

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 2.5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

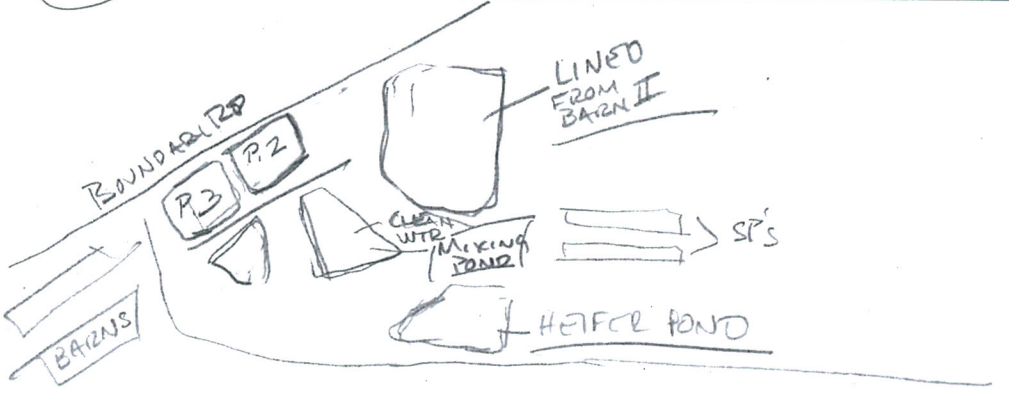
DATE: 04.07.15

SUNNY DENE II & IV (WINDCREST) HAS 5 PONDS, PLUS ONE SCRAP PIT, PLUS 3 SETTLING PONDS.

Weather: SUNNY

Temperature: 54

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

LINED (IV?)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: 7 MIL PLASTIC LINER

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

LINED (LV)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	
6. Embankment – Top Width (ft)	
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	FLEXIBLE POLY ?
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MI
18. Distance to Nearest Water Course (ft)	

WSP – STRUCTURE COMMENTS / NOTES

PIZZA PIE SHAPED "MIXING" POND ADJACENT – @ N: 46.19473 W: 120.0213 – MOSTLY CLEAN WATER COMING IN – SOME EROSION NEAR CLEAN WATER INLET – EMPTY @ ASSESSMENT TIME.

A. Site inventory

Date: , 04/07/15 Time: 1:00PM

Inspector: C. SULLIVAN

LANDOWNER:

OPERATOR: SID WAVRIN

AGID: 2194 / 9844 FARM NAME: SUNNY DENE II

LAGOON ID: #2 FOR LAGOON Lat: 46.19460 Long: 120.02205

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: [redacted] **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: [redacted]

☑ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: [redacted]

Weather: SUNNY

Temperature: 54°

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

NRCS (SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNY DENELL HOT FOR POND -

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?	X		
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION NEAR INLET

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	LEVEL
6. Embankment – Top Width (ft)	NA
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL / 12"
12. Inlet Type and Location	~~PVC~~
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/2 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/2 MILE
18. Distance to Nearest Water Course (ft)	

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: 04.07.15 Time: 1:00

Inspector: CS

LANDOWNER: WILLIAM + SID WALDRON

OPERATOR:

AGID: FARM NAME: SUNNYDENE II OR IV (WINDCREST)

LAGOON ID: 2194/9844 MIXING POND Lat: 46.19473 Long: 120.02013

Phones: Cell:

FARM ADDRESS: 1671 BOUNDARY RD MABTON, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SUNNY

Temperature: 84

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNY DENE
MIXING

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SAME EROSION NEAR CLEAN WATER INLET

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

S.U.
MIXING

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1 ?
5. Embankment - Outside SS (Y:1)	LEVEL
6. Embankment – Top Width (ft)	33' TO LEVEL
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/2 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/2 MILE
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **William J Wavrin**

AGID: ~~2097~~ 2194/9844 FARM NAME: **Sunny Dene Ranch II III IV** TWO PONDS BOTH @ S0°60 SOUTH OF CORRALS

LAGOON ID: ~~#900~~ 1 Lat: 46.19460 Long: 120.02205

Phones: Cell:

FARM ADDRESS: 1671 Boundary Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

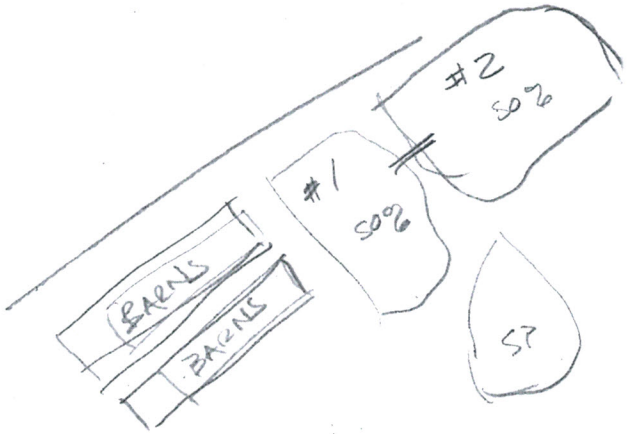
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 54° F

Soil surface: (dry) moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

PATIOR #1 (SUNNY DONE ???) 2 PONDS

LOOK LIKE SAME SIZE - SAME CONDITION SAME LEVEL

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION ON SOUTH EDGE OF FIRST POND (NORTH OF CORRALS) @ INLET PIPE.

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to ~~wave~~ WIND action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	LEVEL W/ SOIL SURFACE
6. Embankment – Top Width (ft)	
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY/SOIL AMENDMENT / 12"
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS -
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: 04.07.15 Time: 1:00

Inspector: C.S.

LANDOWNER: WILLIAM WAJERIN

OPERATOR: SID & WILLIAM

AGID: FARM NAME: SUNNY DENE II, IV - WINDCREST
2194/9844

LAGOON ID: POND 2 Lat: 46.19460 Long: 120.02205

Phones: Cell:

FARM ADDRESS: 1671 BOUNDARY RD, MABTON, WA -

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SUNNY

Temperature: 84

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNY DONG II
POND 2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNY DENE II
POND 2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	2:1 ?
5. Embankment - Outside SS (Y:1)	LEVEL
6. Embankment – Top Width (ft)	9' B/W PONDS
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE -
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 11:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jason Smeenk**

AGID: **2199** FARM NAME: **Smeenk Bros Dairy #2**

LAGOON ID: MAIN Lat: 46.29957 Long: 120.04691

Phones: Cell:

FARM ADDRESS: 8220 Emerald Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

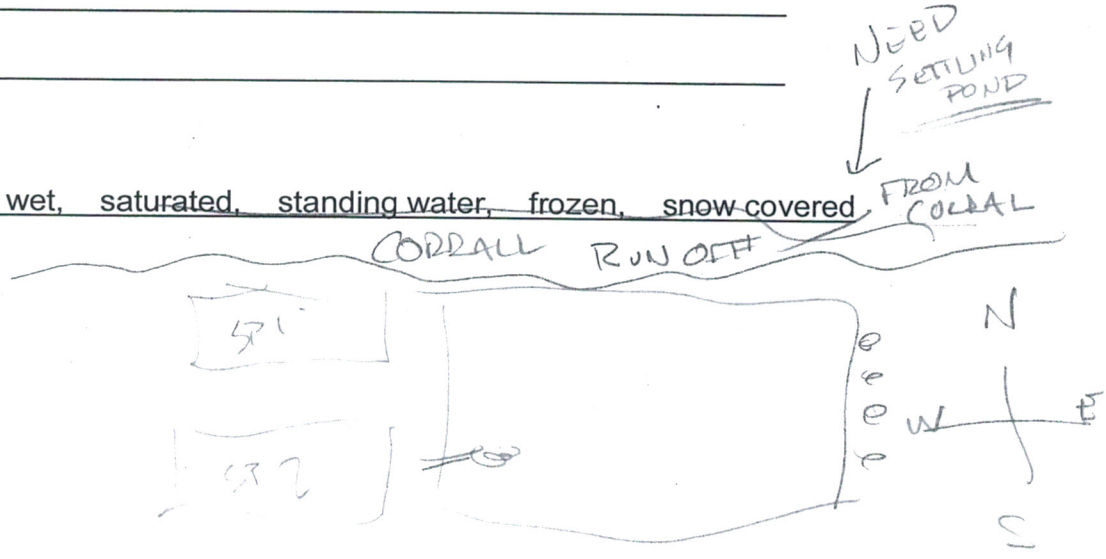
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather:

Temperature:

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SMBRNK #2

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?	X		
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	X	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.	X	

MANURE FROM PEN 25 RUNS OVERLAND TO LAGOON - NEED SETTLING POND B/W PEN 25 & LAGOON

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION ON SE EDGE

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

#2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	185
2. WSP - Inside Top – Average Length (ft)	215
3. WSP Storage Capacity (cu ft)	276,090 (2,065,153)
4. Embankment - Inside SS (X:1)	2.5:1
5. Embankment - Outside SS (Y:1)	3:1 TO SLOPES TO REMAIN 2.5:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	7
9. Maximum Excavation Depth (ft)	10
10. Total Pond Depth (ft)	9
11. Liner Type and Thickness (in)	AMENDED SOIL / 12"
12. Inlet Type and Location	N/A
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	< 1/4 MI / 100'?
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	PASTURES
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	< 1/4 MI
18. Distance to Nearest Water Course (ft)	YAKIMA RIVER
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 11:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Scott Smeenk**

AGID: **2076** FARM NAME: **Smeenk Bros Dairy LLC**

LAGOON ID: MAIN #1 Lat: 46.29354 Long: 120.05947

Phones: LINED Cell:

FARM ADDRESS: 451 Wendell Phillips Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☑ WSP is FULL (Typically late winter or early spring)

DATE:

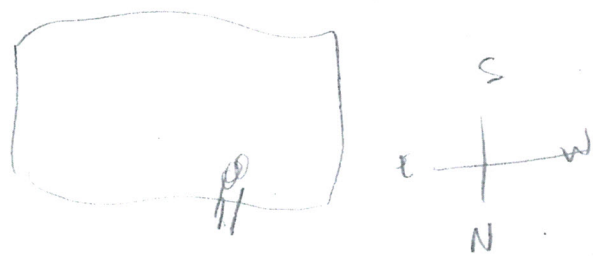
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 55

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SMBANK #1

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SMEENK #1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	170
2. WSP - Inside Top – Average Length (ft)	220
3. WSP Storage Capacity (cu ft)	287,493 (2,150,450)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	NO SLOPE
6. Embankment – Top Width (ft)	12 TO LEVEL
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	11
9. Maximum Excavation Depth (ft)	13
10. Total Pond Depth (ft)	12
11. Liner Type and Thickness (in)	GEOTEXTILE / 2" THICK 1' DEEP
12. Inlet Type and Location	PVC, TO PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE / 120'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CROSS NO WHERE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	1.5 MILE / YAKIMA RIVER
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jake Veldhuis**

AGID: **2225** FARM NAME: **Veldhuis Dairy**

LAGOON ID: MAIN Lat: 46.19336 Long: 119.93240

Phones: Cell:

FARM ADDRESS: 26480 State Route 22, Mabton, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 75% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

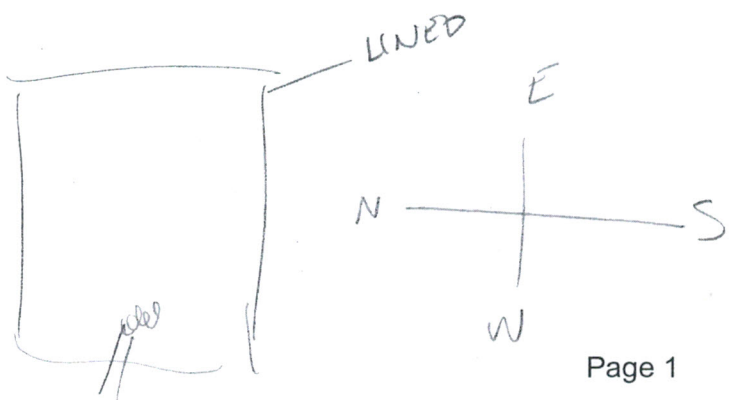
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather:

Temperature: 45°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

VELDHUIS MAIN

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	2:1 / 3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	40 MIL SYNTHETIC
12. Inlet Type and Location	10" PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE /
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRAL THEN PASTURE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS.
17. Distance to Nearest Home/Dwelling (ft)	1/2 MILE
18. Distance to Nearest Water Course (ft)	YAKIMA RVR 4 MILES
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 11:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Henry Bosma**

AGID: **2239** FARM NAME: **Suncrest Farms**

LAGOON ID: 1 Lat: N46.34177 Long: W120.12660

Phones: Cell:

FARM ADDRESS: 440 Dekker Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 40 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 50

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	~~25 stop~~	62'
2. WSP - Inside Top – Average Length (ft)	~~60 stop~~	150'
3. WSP Storage Capacity (cu ft)	~~381~~	
4. Embankment - Inside SS (X:1)	3:1	
5. Embankment - Outside SS (Y:1)	3:1	
6. Embankment – Top Width (ft)	10'	
7. Combined Side Slope (Outside SS + Inside SS)		
8. Embankment – Maximum Fill Height (ft)		
9. Maximum Excavation Depth (ft)		
10. Total Pond Depth (ft)		
11. Liner Type and Thickness (in)	Clay	
12. Inlet Type and Location	Pipe SE corner	
13. WSP Interior-Outlet Ramp Slope (z:1)		
14. Distance to Nearest Well / Water Depth in well(ft)		500'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		Berm
17. Distance to Nearest Home/Dwelling (ft)		500'
18. Distance to Nearest Water Course (ft)		100'

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Monday April, 6, 2015 Time: 11:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Henry Bosma**

AGID: **2239** FARM NAME: **Suncrest Farms**

LAGOON ID: 7 Lat: N 46 34131 Long: W120.13047

Phones: Cell:

FARM ADDRESS: 440 Dekker Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: DMc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 50° F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 34 steps	85'
2. WSP - Inside Top – Average Length (ft) 75 steps	190'
3. WSP Storage Capacity (cu ft)	60,000 cu ft / 450,000 gal.
4. Embankment - Inside SS (X:1) 4/1	
5. Embankment - Outside SS (Y:1) 4/1	
6. Embankment – Top Width (ft) 12'	
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	7'
10. Total Pond Depth (ft)	7'
11. Liner Type and Thickness (in) Clay	
12. Inlet Type and Location Pipe NE	Corner
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	750'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	Berms
17. Distance to Nearest Home/Dwelling (ft)	750'
18. Distance to Nearest Water Course (ft)	100'

WSP – STRUCTURE COMMENTS / NOTES

POND CALCULATIONS

DAIRY WASTE	D= STORAGE		6		**AVERAGE AREA**	**Suncrest Farms**
LAGOON/POND	S= SIDE SLOPE		2	:1		Feb-09
CALCULATIONS	L= LENGTH		185		161	INSIDE LENGTH
	W=WIDTH		70		46	INSIDE WIDTH
	AREA=FT^2	12,950			173	AVERAGE LENGTH
	TOTAL					
					58	AVERAGE WIDTH
POND #1	FT AVERAGE		10,034			
	CUBIC FT		60,204			
	GALLON CAPACITY		450,326			
	TOTAL					
	ACRE FEET		1.4		DEPTH IS THE STORAGE DEPTH OF LAGOON	
					LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	D= STORAGE		2		**AVERAGE AREA**	
	S= SIDE SLOPE		1	:1		
Containment	L= LENGTH		300		296	INSIDE LENGTH
Area - West Side	W= WIDTH		300		296	INSIDE WIDTH
	AREA=FT^2	90,000			298	AVERAGE LENGTH
Size is estimated	TOTAL					
from map.					298	AVERAGE WIDTH
	FT AVERAGE		88,804			
	CUBIC FT		177,608		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		1,328,508		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		4.1			
	D= STORAGE		1		**AVERAGE AREA**	
	S= SIDE SLOPE		1	:1		
Containment	L= LENGTH		150		148	INSIDE LENGTH
	W=WIDTH		150		148	INSIDE WIDTH
	AREA=FT^2	22,500			149	AVERAGE LENGTH
					149	AVERAGE WIDTH
	FT AVERAGE		22,201			
	CUBIC FT		22,201		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		166,063		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.5			

		D= STORAGE				**AVERAGE AREA**	
		S= SIDE SLOPE			:1		
		L= LENGTH				0	INSIDE LENGTH
		W=WIDTH				0	INSIDE WIDTH
		AREA=	0			0	AVERAGE LENGTH
						0	AVERAGE WIDTH
		FT AVERAGE		0			
		CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET		0.0			
		D= STORAGE				**AVERAGE AREA**	
		S= SIDE SLOPE			:1		
		L= LENGTH				0	INSIDE LENGTH
		W=WIDTH				0	INSIDE WIDTH
		AREA=	0			0	AVERAGE LENGTH
						0	AVERAGE WIDTH
		FT AVERAGE		0			
		CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET		0.0			
SURFACE AREA			125,450				
TOTAL				1,944,897			

A. Site inventory

Date: ~~Monday April, 6, 2015~~ Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Nick Struikmans**

AGID: **3090** FARM NAME: **Majestic Farms**

LAGOON ID: 1 Lat: N 46.37318 Long: W 120.14439

Phones: Cell:

FARM ADDRESS: 2270 Gurley Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan Mac **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 55° F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?	✓		
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: Olive bush in between L1 & L2

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	✓	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.	✓	
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 145'	~~48~~ yrds
2. WSP - Inside Top – Average Length (ft) 140'	~~47~~ yards
3. WSP Storage Capacity (cu ft)	174,000
4. Embankment - Inside SS (X:1)	4/1
5. Embankment - Outside SS (Y:1)	—
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	4:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	~~10~~
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location	Pipe @ BPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	500'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berm + emergency lagoon
17. Distance to Nearest Home/Dwelling (ft)	500'
18. Distance to Nearest Water Course (ft)	500'
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: ~~Monday April, 6, 2015~~ Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Nick Struikmans**

AGID: **3090** FARM NAME: **Majestic Farms**

LAGOON ID: 2 Lat: N46 37 276 Long: W120.14440

Phones: Cell:

FARM ADDRESS: 2270 Gurley Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 55°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 140'	~~46' yards~~
2. WSP - Inside Top – Average Length (ft) 165'	55 yards
3. WSP Storage Capacity (cu ft)	174,000 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	—
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	4:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location pipe @ GPS	
13. WSP Interior-Outlet Ramp Slope (z:1)	
14. Distance to Nearest Well / Water Depth in well(ft) ~~1500'~~	500'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	Emergency Lagoon
17. Distance to Nearest Home/Dwelling (ft) ~~1500'~~	~~500'~~ 500'
18. Distance to Nearest Water Course (ft) ~~400'~~	300' 300'
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Nick Struikmans**

AGID: **3090** FARM NAME: **Majestic Farms**

LAGOON ID: 3 Lat: N46.37257 Long: 120.14478

Phones: Cell:

FARM ADDRESS: 2270 Gurley Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 20' FT.

Completed by: Dan Mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/13/15

Weather: Cloudy

Temperature: 55°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	~~29~~ yards 50'
2. WSP - Inside Top – Average Length (ft)	~~430'~~ ~~143~~ yards 240'
3. WSP Storage Capacity (cu ft)	603,936 cu ft
4. Embankment - Inside SS (X:1)	3/1
5. Embankment - Outside SS (Y:1)	3/1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	6:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	9'
10. Total Pond Depth (ft)	9'
11. Liner Type and Thickness (in)	Clay
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	160'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	
17. Distance to Nearest Home/Dwelling (ft)	100
18. Distance to Nearest Water Course (ft)	200'
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE LAGOON/POND CALCULATIONS		D= STORAGE	10		**AVERAGE AREA**	**Nov-14**
		S= SIDE SLOPE	2	:1		**MAJESTIC FARMS**
		L= LENGTH	140		100	INSIDE LENGTH
		W=WIDTH	165		125	INSIDE WIDTH
		AREA=FT^2 23,100			120	AVERAGE LENGTH
					145	AVERAGE WIDTH
POND #1		FT AVERAGE	17,400			
		CUBIC FT	174,000			
		GALLON CAPACITY	1,301,520			
		ACRE FEET	4.0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
					LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		D= STORAGE	10		**AVERAGE AREA**	
		S= SIDE SLOPE	2	:1		
POND #2		L= LENGTH	140		100	INSIDE LENGTH
		W=WIDTH	165		125	INSIDE WIDTH
		AREA=FT^2 23,100			120	AVERAGE LENGTH
					145	AVERAGE WIDTH
		FT AVERAGE	17,400			
		CUBIC FT	174,000		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY	1,301,520		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET	4.0			
		D= STORAGE	9		**AVERAGE AREA**	
POND #3		S= SIDE SLOPE	2	:1		
		L= LENGTH	240		204	INSIDE LENGTH
		W=WIDTH	50		14	INSIDE WIDTH
		AREA=FT^2 12000			222	AVERAGE LENGTH
					32	AVERAGE WIDTH
		FT AVERAGE	7,104			
		CUBIC FT	63,936		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY	478,241		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET	1.5			
		D= STORAGE	5		**AVERAGE AREA**	
SETTLING BASIN		S= SIDE SLOPE	2	:1		
		L= LENGTH	100		80	INSIDE LENGTH
		W=WIDTH	40		20	INSIDE WIDTH
		AREA= 4000			90	AVERAGE LENGTH
		12000			30	AVERAGE WIDTH
		FT AVERAGE	2,700			
		CUBIC FT	13,500		DEPTH IS THE STORAGE DEPTH OF LAGOON	
		GALLON CAPACITY	100,980	201,960	LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
		ACRE FEET	0.3			

SURFACE AREA =	70,200	3,283,241	GALLONS
TOTAL			

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **David R Newhouse**

AGID: **3875** FARM NAME: **Newhouse Dairy**

LAGOON ID: MAIN Lat: 46.27104 Long: 120.05655

Phones: Cell:

FARM ADDRESS: 1760 Murray Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANUAL/ EFFLUENT LEVEL: 60 % ADDING IRRIGATION WATER

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

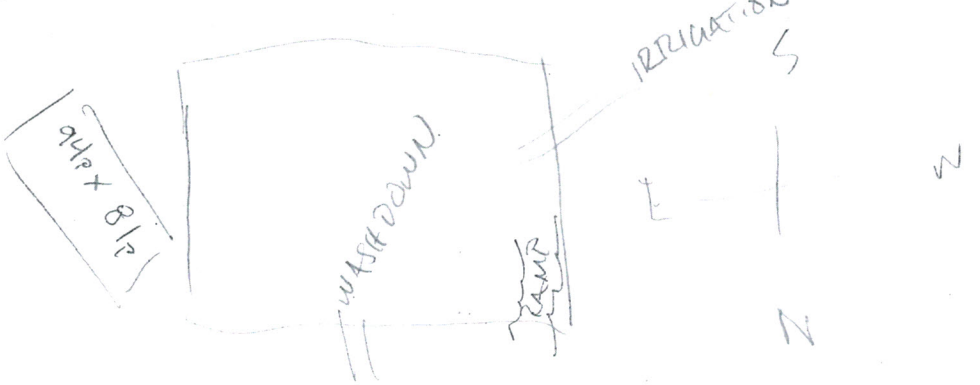
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 43° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

NOWHOUSE MAIN

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		✓	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1 TO 8:1
6. Embankment – Top Width (ft)	14'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	NATIVE CLAY
12. Inlet Type and Location	PVC TO CONCRETE SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 M
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	TO FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 M
18. Distance to Nearest Water Course (ft)	2 MI — SULFUR CREEK WASTE WAY

1/4 MILE TO IRRIGATION LATERAL

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Monday April, 6, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Henry R Haak**

AGID: **3894** FARM NAME: **Snipes Mountain Dairy**

LAGOON ID: 5 Lat: N46.33414 Long: W120.07892

Phones: Cell:

FARM ADDRESS: 211 Nichols Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 50°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	170'	~~59 yards~~
2. WSP - Inside Top – Average Length (ft)	295'	~~98 yards~~
3. WSP Storage Capacity (cu ft)		388,608 cu ft
4. Embankment - Inside SS (X:1)		4/1
5. Embankment - Outside SS (Y:1)		3/1
6. Embankment – Top Width (ft)		20'
7. Combined Side Slope (Outside SS + Inside SS)		7:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		8'
10. Total Pond Depth (ft)		8'
11. Liner Type and Thickness (in)	clay	
12. Inlet Type and Location		pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		
14. Distance to Nearest Well / Water Depth in well(ft)	540'	~~180 yards~~
15. Failure Impacts; (Farm Building), Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		Berms
17. Distance to Nearest Home/Dwelling (ft)	540'	~~180~~ yards
18. Distance to Nearest Water Course (ft)	1500'	

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Monday April, 6, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Henry R Haak**

AGID: **3894** FARM NAME: **Snipes Mountain Dairy**

LAGOON ID: 6 Lat: N46.33328 Long: W120.07869

Phones: Cell:

FARM ADDRESS: 211 Nichols Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 50°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

Snipes Mtn #5

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES		NOTES
1. WSP - Inside Top – Average Width (ft)	190'	~~63 yards~~
2. WSP - Inside Top – Average Length (ft)	290'	~~97 yards~~
3. WSP Storage Capacity (cu ft)		388,608 cu ft
4. Embankment - Inside SS (X:1)	3/1	
5. Embankment - Outside SS (Y:1)	3/1	
6. Embankment – Top Width (ft)	20'	
7. Combined Side Slope (Outside SS + Inside SS)		6:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		8'
10. Total Pond Depth (ft)		8'
11. Liner Type and Thickness (in)	Clay	
12. Inlet Type and Location	Pipe @	6PS
13. WSP Interior-Outlet Ramp Slope (z:1)		
14. Distance to Nearest Well / Water Depth in well(ft)	540'	~~180 yards~~
15. Failure Impacts: Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.		Berm
17. Distance to Nearest Home/Dwelling (ft)	540'	~~180 yards~~
18. Distance to Nearest Water Course (ft)	1500'	~~500 yards~~

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: ~~Monday April, 6, 2015~~ Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Henry R Haak**

AGID: **3894** FARM NAME: **Snipes Mountain Dairy**

LAGOON ID: 7 Lat: N 46.33673 Long: W 120.08012

Phones: Cell:

FARM ADDRESS: 211 Nichols Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan NMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Cloudy

Temperature: 50° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓	~~✓~~	
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	170'	~~57 yards~~
2. WSP - Inside Top – Average Length (ft)	340'	~~114 yds~~
3. WSP Storage Capacity (cu ft)		421,888 cu ft
4. Embankment - Inside SS (X:1)	4/1	
5. Embankment - Outside SS (Y:1)	4/1	
6. Embankment – Top Width (ft)		20'
7. Combined Side Slope (Outside SS + Inside SS)		8:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		9'
10. Total Pond Depth (ft)		9'
11. Liner Type and Thickness (in)		Clay
12. Inlet Type and Location	Hose	
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)	600'	~~200 yards~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		Berm
17. Distance to Nearest Home/Dwelling (ft)	600'	~~200 yards~~
18. Distance to Nearest Water Course (ft)	1500'	

WSP – STRUCTURE COMMENTS / NOTES

POND CALCULATIONS

DAIRY WASTE LAGOON/POND CALCULATIONS	D= STORAGE		8		**AVERAGE AREA**	
	S= SIDE SLOPE		3	:1	Snipes Mountain	
	L= LENGTH		300		252	INSIDE LENGTH
	W=WIDTH		200		152	INSIDE WIDTH
	AREA=FT^2	60,000			276	AVERAGE LENGTH
					176	AVERAGE WIDTH
POND #1 #5	FT AVERAGE		48,576			
	CUBIC FT		388,608			
	GALLON CAPACITY		2,906,788			
	ACRE FEET		8.9		DEPTH IS THE STORAGE DEPTH OF LAGOON	
					LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	D= STORAGE		8		**AVERAGE AREA**	
	S= SIDE SLOPE		3	:1		
POND # 2 #6	L= LENGTH		300		252	INSIDE LENGTH
	W=WIDTH		200		152	INSIDE WIDTH
	AREA=FT^2	60,000			276	AVERAGE LENGTH
					176	AVERAGE WIDTH
	FT AVERAGE		48,576			
	CUBIC FT		388,608		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		2,906,788		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		8.9			
SETTLING BASIN # 1, 2, 3, 4	D= STORAGE		7		**AVERAGE AREA**	
	S= SIDE SLOPE		2.5	:1		
	L= LENGTH		200		165	INSIDE LENGTH
	W=WIDTH		40		5	INSIDE WIDTH
THIS DATA IS FOR	AREA=FT^2	32,000			182.5	AVERAGE LENGTH
ALL BASINS. THERE		128,000			22.5	AVERAGE WIDTH
IS A TOTAL OF 4	FT AVERAGE		4,106			
BASINS	CUBIC FT		28,744		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		215,003		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.7			
			645,010		TOTAL FOR THREE BASINS.	
					(ONE BASIN USED FOR TREATMENT)	
	D= STORAGE		0		**AVERAGE AREA**	
	S= SIDE SLOPE		0	:1		
	L= LENGTH		0		0	INSIDE LENGTH
	W=WIDTH		0		0	INSIDE WIDTH
	AREA=	0			0	AVERAGE LENGTH
					0	AVERAGE WIDTH
	FT AVERAGE		0			
	CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.0			
SURFACE AREA =	248,000		6,458,585	GALLONS		

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	9		**AVERAGE AREA**		**July-06**
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1			**Hank Haak**
	EL=POND LENGTH	300				**Snipe Mountain Dairy**
	EW=POND WIDTH	200				
	LL=LIGUID LENGTH	294				
	LW=LIQUID WIDTH	194				
	LD=LIQUID DEPTH	8				
LAGOON/POND						
CALCULATIONS					246	INSIDE LENGTH
					146	INSIDE WIDTH
	AREA=FT^2 60,000				273	AVERAGE LENGTH
					173	AVERAGE WIDTH
POND #5	FT AVERAGE	47,229				
	CUBIC FT	366,688				
	GALLON CAPACITY	2,742,826				
	ACRE FEET	8.4				

DAIRY WASTE	ED= POND DEPTH	9		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	300				
	EW=POND WIDTH	200				
	LL=LIGUID LENGTH	294				
	LW=LIQUID WIDTH	194				
	LD=LIQUID DEPTH	8				
LAGOON/POND						
CALCULATIONS					246	INSIDE LENGTH
					146	INSIDE WIDTH
	AREA=FT^2 60,000				273	AVERAGE LENGTH
					173	AVERAGE WIDTH
POND #6	FT AVERAGE	47,229				
	CUBIC FT	366,688				
	GALLON CAPACITY	2,742,826				
	ACRE FEET	8.4				

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2.5	:1			
	EL=POND LENGTH	200				
	EW=POND WIDTH	40				
	LL=LIGUID LENGTH	195				
	LW=LIQUID WIDTH	35				
	LD=LIQUID DEPTH	7				
LAGOON/POND						
CALCULATIONS					160	INSIDE LENGTH
					0	INSIDE WIDTH
	AREA=FT^2 32,000				180	AVERAGE LENGTH
					20	AVERAGE WIDTH
BASINS	FT AVERAGE	3,600				
#1,2,3,4	CUBIC FT	21,887				
	GALLON CAPACITY	163,712		654,849		
	ACRE FEET	0.5				

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Clarence Benjert**

AGID: **3915** FARM NAME: **Benjert Farms #2** MAIN

LAGOON ID: Lat: 46.29539 Long: 119.97044

Phones: Cell:

FARM ADDRESS: 300 Braden Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 40 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 54

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BENSORT #2 MAIN

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				X
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL EVIDENCE OF RODENT ACTIVITY ON SOUTH EDGE OF POND

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	
5. Embankment - Outside SS (Y:1)	
6. Embankment – Top Width (ft)	16' TO LEVEL
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 8" / TO CONCRETE SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 MI
18. Distance to Nearest Water Course (ft)	1/4 MILE BLACK ROCK IRRIGATION

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Clarence Benjert**

AGID: **3915** FARM NAME: **Benjert Farms #2** INC. SP #1

LAGOON ID: Lat: 46.29562 Long: 119.97021

Phones: 509 840 0396 Cell:

FARM ADDRESS: 300 Braden Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

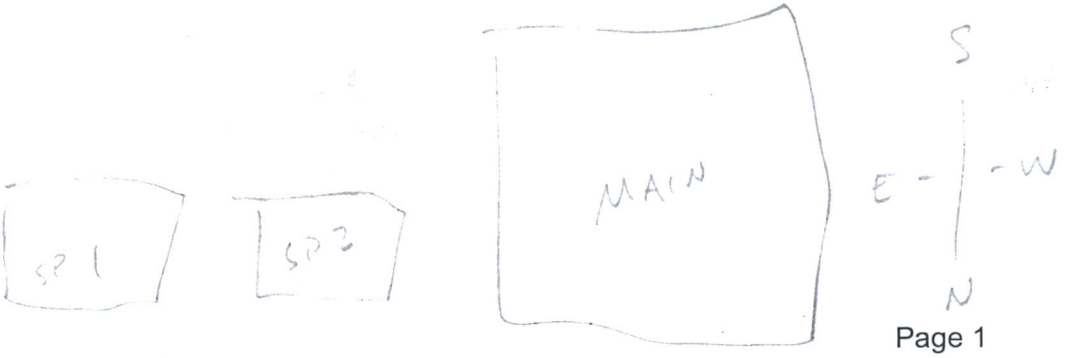
☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 04.08.15

Weather: OVERCAST

Temperature: 54

Soil surface: dry, (moist), wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BENJCRT #2

SETTLING P. #1

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			✓
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME WIND EROSION NEAR TOP

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		✓	
	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?	✓		
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION NEAR TOP EDGE

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 8" / TO CONCRETE SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 MI
18. Distance to Nearest Water Course (ft)	1/4 MI BLACK ROCK IRRIGATION
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Clarence Benjert**

AGID: **3915** FARM NAME: **Benjert Farms #2** SP #2

LAGOON ID: Lat: 46.29556 Long: 119.97021

Phones: Cell:

FARM ADDRESS: 300 Braden Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: .5 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 54

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF) BENSORT #2

SETTLING P. #2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?			
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND WAS FULL - DIFFICULT TO EVALUATE

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION 6" TO TOP OF BANK, POND WAS FULL

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 8"/ TO CONCRETE SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 MI
18. Distance to Nearest Water Course (ft)	1/4 MI BLACK ROCK IRRIGATION
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

9' DEEP
3.5 MIL.

OPERATOR: **Clarence Benjert** QUALITY DAIRY LLC MAIN

AGID: **3950** FARM NAME: **Benjert ~~Farms Inc~~ #1**

LAGOON ID: MAIN Lat: 46.29064 Long: 119.98450

Phones: Cell:

FARM ADDRESS: 1370 Waneta Rd, Grandview, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

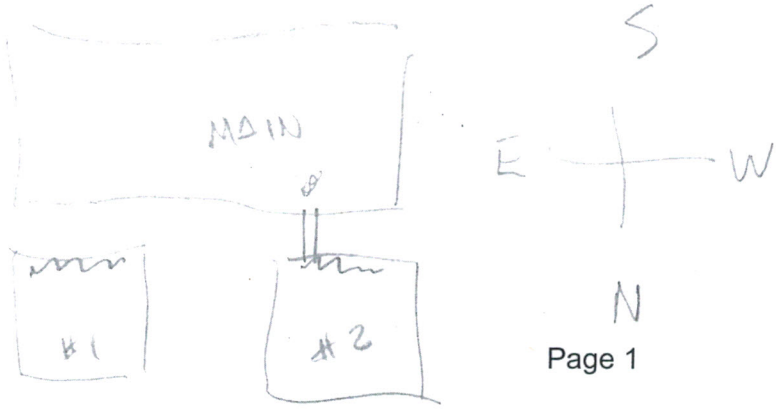
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SHOWER

Temperature: 57

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BENJEIT #1 MAIN

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X	
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: FEW SPOTS OF RODENT HOLES

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL EROSION ON EAST SIDE

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	
5. Embankment - Outside SS (Y:1)	5:1 TO 3:1
6. Embankment – Top Width (ft)	8 TO 12'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED
12. Inlet Type and Location	POURED CONCRETE
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	400 /
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	PASTURE FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/10 MILE
18. Distance to Nearest Water Course (ft)	800 BLACK ROCK IRR.

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

100,000 gl

OPERATOR: **Clarence Benjert**

AGID: **3950** FARM NAME: **Benjert Farms Inc #1**

SETTLING POND #1

LAGOON ID: SETTLING POND Lat: 46.29080 Long: 119.98406

Phones: Cell:

FARM ADDRESS: 1370 Waneta Rd, Grandview, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SHOWERS

Temperature: 57

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BENSERT #1 SETTLING POND 1

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				X
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND WAS FULL

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to WIND wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL EROSION NOAR TOP OF BANK - POSSIBLY DUE TO AGRESSIVE AQITATION

POND WAS FULL

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL 12"
12. Inlet Type and Location	PVC TO CONCRETE
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	400'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/16 MILE
18. Distance to Nearest Water Course (ft)	800' BLACK ROCK IRRIGATION

WSP – STRUCTURE COMMENTS / NOTES
POND WAS FULL

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

100,000 G.

OPERATOR: **Clarence Benjert**

AGID: **3950** FARM NAME: **Benjert Farms Inc #1**

SETTLING POND #2

LAGOON ID: SETTLING POND #2 Lat: 46.29079 Long: 119.98134

Phones: Cell:

FARM ADDRESS: 1370 Waneta Rd, Grandview, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SHOWERS

Temperature: 57

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BENJORT #1
SETTLING POND #2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?			
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND WAS FULL COULD NOT EVALUATE LINER

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / ~~Compacted Clay~~ / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
	Interior erosion from rainfall?			

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL EROSION NEAR TOP OF ~~LAGOON~~ SOUTH EDGE POND

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC-8"
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	400'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/10 MI
18. Distance to Nearest Water Course (ft)	800' BLACK ROCK IRRIGATION
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 11:30:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Kevin Den Hoed**

AGID: **3951** FARM NAME: **Den Hoed Dairy**

LAGOON ID: 1 Lat: N46.28766 Long: W119. 88277

Phones: Cell:

FARM ADDRESS: 2320 N County Line Rd, Grandview, WA

REVIEW INVENTORY DATE: 4/14/15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/14/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny / windy

Temperature: 53°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	✓		
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 90'	~~294~~ yards
2. WSP - Inside Top – Average Length (ft) 130'	~~434~~
3. WSP Storage Capacity (cu ft)	68,340 cu ft
4. Embankment - Inside SS (X:1)	Unable – Too full
5. Embankment - Outside SS (Y:1)	in-ground
6. Embankment – Top Width (ft)	81'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	0
9. Maximum Excavation Depth (ft)	16'
10. Total Pond Depth (ft)	16'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 mile
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	N/A
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft)	1/4 mile
18. Distance to Nearest Water Course (ft)	1 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: ~~Tuesday April, 7, 2015~~ Time: 11:30:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Kevin Den Hoed**

AGID: **3951** FARM NAME: **Den Hoed Dairy**

LAGOON ID: 2 Lat: N46.28753 Long: W119.88317

Phones: Cell:

FARM ADDRESS: 2320 N County Line Rd, Grandview, WA

REVIEW INVENTORY DATE: 4/14/15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 15 FT.

Completed by: DMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/14/15

Weather: Sunny / Windy

Temperature: 53°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 185'	~~61~~ Yards
2. WSP - Inside Top – Average Length (ft) 220'	~~73~~
3. WSP Storage Capacity (cu ft)	407,280 cu ft
4. Embankment - Inside SS (X:1)	2/1
5. Embankment - Outside SS (Y:1)	In ground
6. Embankment – Top Width (ft)	10'
7. Combined Side Slope (Outside SS + Inside SS)	-
8. Embankment – Maximum Fill Height (ft)	0
9. Maximum Excavation Depth (ft)	16'
10. Total Pond Depth (ft)	16'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location pipe @ GPS	
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 mile
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	N/A
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	~~berm~~
17. Distance to Nearest Home/Dwelling (ft)	1/4 mile
18. Distance to Nearest Water Course (ft)	1 mile
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	16		**AVERAGE AREA**		**March-14**
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1	**den Hoed Dairy, INC.**		
	EL=POND LENGTH	115				
	EW=POND WIDTH	75				
	LL=LIGUID LENGTH	111				
	LW=LIQUID WIDTH	71				
	LD=LIQUID DEPTH	15				
LAGOON/POND						
CALCULATIONS					51	INSIDE LENGTH
					11	INSIDE WIDTH
	AREA=FT^2 8,625				83	AVERAGE LENGTH
					43	AVERAGE WIDTH
POND #1	FT AVERAGE	3,569				
	CUBIC FT	54,315				
	GALLON CAPACITY	406,276				
	ACRE FEET	1.2				

DAIRY WASTE	ED= POND DEPTH	16		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1			
	EL=POND LENGTH	110				
	EW=POND WIDTH	90				
	LL=LIGUID LENGTH	106				
	LW=LIQUID WIDTH	86				
	LD=LIQUID DEPTH	15				
LAGOON/POND						
CALCULATIONS					46	INSIDE LENGTH
					26	INSIDE WIDTH
	AREA=FT^2 9,900				78	AVERAGE LENGTH
					58	AVERAGE WIDTH
POND #2	FT AVERAGE	4,524				
	CUBIC FT	68,340				
	GALLON CAPACITY	511,183				
	ACRE FEET	1.6				

DAIRY WASTE	ED= POND DEPTH	16		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1			
	EL=POND LENGTH	230				
	EW=POND WIDTH	171				
	LL=LIGUID LENGTH	226				
	LW=LIQUID WIDTH	167				
	LD=LIQUID DEPTH	15				
LAGOON/POND						
CALCULATIONS					166	INSIDE LENGTH
					107	INSIDE WIDTH
	AREA=FT^2 39,330				198	AVERAGE LENGTH
					139	AVERAGE WIDTH
POND #3	FT AVERAGE	27,522				
	CUBIC FT	407,280				
	GALLON CAPACITY	3,046,454				
	ACRE FEET	9.3				

SURFACE AREA = 70,950 4,711,502 GALLONS

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	16		AVERAGE AREA		March-14
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1	den Hoed Dairy, INC.		
	EL=POND LENGTH	135				
	EW=POND WIDTH	97				
	LL=LIGUID LENGTH	131				
	LW=LIQUID WIDTH	93				
	LD=LIQUID DEPTH	15				
LAGOON/POND						
CALCULATIONS					71	INSIDE LENGTH
					33	INSIDE WIDTH
	AREA=FT^2 13,095				103	AVERAGE LENGTH
					65	AVERAGE WIDTH
POND #4	FT AVERAGE	6,695				
	CUBIC FT	99,945				
	GALLON CAPACITY	747,589				
	ACRE FEET	2.3				

DAIRY WASTE	ED= POND DEPTH			AVERAGE AREA		
	FB=FREEBOARD	1				
	S=SIDE SLOPE		:1			
	EL=POND LENGTH					
	EW=POND WIDTH					
	LL=LIGUID LENGTH	0				
	LW=LIQUID WIDTH	0				
	LD=LIQUID DEPTH	-1				
LAGOON/POND						
CALCULATIONS					0	INSIDE LENGTH
					0	INSIDE WIDTH
	AREA=FT^2 0				0	AVERAGE LENGTH
					0	AVERAGE WIDTH
POND #	FT AVERAGE	0				
	CUBIC FT	0				
	GALLON CAPACITY	0				
	ACRE FEET	$ -				

DAIRY WASTE	ED= POND DEPTH			AVERAGE AREA		
	FB=FREEBOARD	1				
	S=SIDE SLOPE		:1			
	EL=POND LENGTH					
	EW=POND WIDTH					
	LL=LIGUID LENGTH	0				
	LW=LIQUID WIDTH	0				
	LD=LIQUID DEPTH	-1				
LAGOON/POND						
CALCULATIONS					0	INSIDE LENGTH
					0	INSIDE WIDTH
	AREA=FT^2 0				0	AVERAGE LENGTH
					0	AVERAGE WIDTH
POND #	FT AVERAGE	0				
	CUBIC FT	0				
	GALLON CAPACITY	0				
	ACRE FEET	$ -				

SURFACE AREA =	13,095	747,589	GALLONS	

A. Site inventory

Date: 04.06.15 Time: 1 pm

Inspector: C.S.

LANDOWNER:

OPERATOR: ROBERT GOLOB

AGID: 3953 FARM NAME: GOLOB DAIRY

LAGOON ID: MAIN LAGOON Lat: 46.36552 Long: 120.17748

Phones: WEST Cell:

FARM ADDRESS:

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: [redacted] **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: [redacted]

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: [redacted]

Weather: CLEAR

Temperature: 55° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

MAIN GOLOB

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME NARROWING OF TOP BANK

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

GOLOB MAIN

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	SEE (4) NOTES
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	2:1 / 3:1
6. Embankment – Top Width (ft)	9.5'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	AMENDED SOIL
12. Inlet Type and Location	10" PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	DRAIN TO FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	NA
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	3 MILES GRANGER DRAIN

WSP – STRUCTURE COMMENTS / NOTES
SOUND W/ NO SIGNIFICANT EROSION - SOME AREAS OF TOP WIDTH NARROWING ON SOUTH BANK.

A. Site inventory

Date: Monday April, 6, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

EXT SETTLING POND - 131' x 25' N 46.36573 W 120.17655

WEST LAGOON: 145' x 1 N 46.36552 W 120.17748

OPERATOR: **Robert Golob**

AGID: **3953** FARM NAME: **Golob Dairy Inc**

LAGOON ID: SETT. POND Lat: 46.36x573 Long: 120.17655

Phones: Cell:

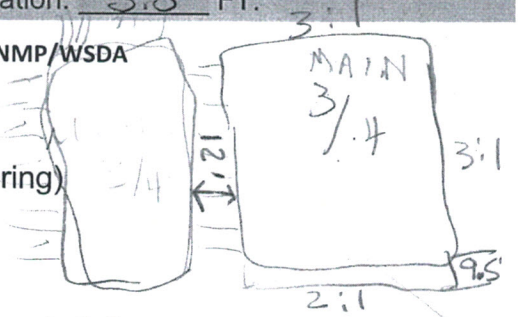
FARM ADDRESS: 500 Nelson Rd, Granger, WA

REVIEW INVENTORY DATE: _____

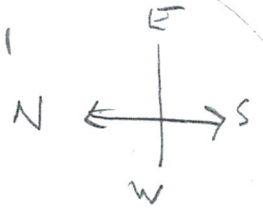
MANURE/ EFFLUENT LEVEL: 50% % SP @ 3.5' @ 50% MC. 4' @ 75%

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3.5 FT.

Completed by: _____ **Agency DNMP/WSDA**



INSIDE 3:1



CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: CLEAR

Temperature: 55°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SETTLING POND

GOLOB

WSP - STRUCTURE MODIFICATION FORM				N/A
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: INSIDE S.E. EDGE SOME WIND EROSION

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment ? (Circle One) CLAY AMENDED SOIL LINER			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SETTLING POND

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	SEE CD NOTES
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	2:1 & 3:1 - NO SLOPE ON TWO SIDES
6. Embankment – Top Width (ft)	12' B/W MAIN LAGOON
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	AMENDED SOIL
12. Inlet Type and Location	10" PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	WATER FLOWS TO FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	NA
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	3 MILES GRANGER DRAIN

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Tony Veiga**

AGID: **9659** FARM NAME: **J & K Dairy LLC #1 & #2**

LAGOON ID: 3 Lat: N 46,33387 Long: W119. 90344

Phones: Cell:

FARM ADDRESS: 7190 E Edison Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 60°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.	✓		
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	35 yds 105'
2. WSP - Inside Top – Average Length (ft)	120 yds 360'
3. WSP Storage Capacity (cu ft)	229,460 cuft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	8'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	4:1
14. Distance to Nearest Well / Water Depth in well(ft)	80 yds
15. Failure Impacts; Farm Building, Homes, Roads, (Water Course)	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	
17. Distance to Nearest Home/Dwelling (ft)	80 yds
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: , Time:

Inspector:

LANDOWNER:

OPERATOR:

AGID: FARM NAME: J+K LLC 1&2

LAGOON ID: 4 Lat: N46.33420 Long: W119. 90347

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: _____ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 60°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
	Was the WSP modification designed by a qualified individual?			
1	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	Yes	✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.	✓		
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	40 yds 120'
2. WSP - Inside Top – Average Length (ft)	120 yds 360'
3. WSP Storage Capacity (cu ft)	≈ 254,170 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	8'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	140 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	140 yds
18. Distance to Nearest Water Course (ft)	165 yds
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		**September-13**
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1	**J & K 2 Dairy**		
	EL=POND LENGTH	380				
	EW=POND WIDTH	120				
	LL=LIGUID LENGTH	374				
	LW=LIQUID WIDTH	114				
	LD=LIQUID DEPTH	7				
LAGOON/POND						
CALCULATIONS					332	INSIDE LENGTH
					72	INSIDE WIDTH
	AREA=FT^2 45,600				356	AVERAGE LENGTH
					96	AVERAGE WIDTH
POND #1	FT AVERAGE	34,176				
	CUBIC FT	229,460				
	GALLON CAPACITY	1,716,361				
	ACRE FEET	5.3				

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	380				
	EW=POND WIDTH	130				
	LL=LIGUID LENGTH	374				
	LW=LIQUID WIDTH	124				
	LD=LIQUID DEPTH	7				
LAGOON/POND						
CALCULATIONS					332	INSIDE LENGTH
					82	INSIDE WIDTH
	AREA=FT^2 49,400				356	AVERAGE LENGTH
					106	AVERAGE WIDTH
POND #2	FT AVERAGE	37,736				
	CUBIC FT	254,170				
	GALLON CAPACITY	1,901,192				
	ACRE FEET	5.8				

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	215				
	EW=POND WIDTH	105				
	LL=LIGUID LENGTH	209				
	LW=LIQUID WIDTH	99				
	LD=LIQUID DEPTH	7				
LAGOON/POND						
CALCULATIONS					167	INSIDE LENGTH
					57	INSIDE WIDTH
	AREA=FT^2 22,575				191	AVERAGE LENGTH
					81	AVERAGE WIDTH
Catch Basin	FT AVERAGE	15,471				
	CUBIC FT	102,305				
	GALLON CAPACITY	765,241				
	ACRE FEET	2.3				

SURFACE AREA =	117,575	4,382,794	GALLONS

A. Site inventory

Date: Thursday April, 9, 2015 Time: 11:30:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Richard Leyendeker**

AGID: **5607** FARM NAME: **Sli Dairy**

LAGOON ID: MAIN Lat: 46.36136 Long: 119.92479

Phones: Cell:

FARM ADDRESS: 2501 Sli Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 54°

Soil surface: dry, (moist), wet, saturated, standing water, frozen, snow covered

ORCHARD

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

R. LEVENDECKER
MAIN

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?	X		
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?			
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?	?		
	All recycling pumps and transfer pipes are functional?	?		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: LOTS OF RODENT ACTIVITY. EVIDENCE OF OVERTOPPING INTO CORRAL. LOTS OF WEEDS - NEED TO SPRAY

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	X	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.	X	

NEED TO BRING WSP BANK ON S/SW EDGE BACK INTO DESIGN COMPLIANCE – LOW EDGE ALLOWS WATER/MANURE TO FLOW B/W CORRAL & WSP.

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?	—	—	—
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?			X
	Damp, soft, or slumping areas?			X
	Evidence of seepage on the embankment slope?			X
	Evidence of seepage around pipes through berm?			X
	Evidence of differential (uneven) settlement?	X		
	Evidence of seepage at the toe of the embankment?			X
	Evidence of sand boils on the slope, along the toe or near the toe?			X
WSP – Interior Surface	Interior erosion due to wave action?	—	—	
	Interior erosion from rainfall?	—	—	—

PIT POND LOWEST POINT — NO BANK TOE

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND FULL – COULD NOT EVALUATE INTERIOR

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	
5. Embankment - Outside SS (Y:1)	NA
6. Embankment – Top Width (ft)	SLI ROAD – 18'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PIPE
13. WSP Interior-Outlet Ramp Slope (z:1)	7
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	LOWEST POINT
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 MI
18. Distance to Nearest Water Course (ft)	ROZA CANAL? √ MAP.

WSP – STRUCTURE COMMENTS / NOTES
SETTLING POND IS FULL OF SOLIDS & WEEDS – BANK ON CORRAL SIDE IN GOOD SHAPE – SIDE ADJACENT TO WSP IN BAD SHAPE. W/ MULTIPLE PREFERENTIAL PATHS TO WSP.

A. Site inventory

Date: Monday April, 6, 2015 Time: 2:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jake N De Ruyter**

AGID: **5706** FARM NAME: **Deruyter Bros Dairy 1 & 2**

LAGOON ID: 1 Lat: N46.34893 Long: W120.06909

Phones: Cell:

FARM ADDRESS: 5111 Van Belle Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: Dan Mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

[X] WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

[ ] WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: ~~57°F~~ Partly Cloudy

Temperature: 57°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.	✓		
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES		NOTES
1. WSP - Inside Top – Average Width (ft)	360'	~~119 yards~~
2. WSP - Inside Top – Average Length (ft)	140'	~~47 yards~~
3. WSP Storage Capacity (cu ft)		419, 832
4. Embankment - Inside SS (X:1)		3:1
5. Embankment - Outside SS (Y:1)		4:1
6. Embankment – Top Width (ft)		15'
7. Combined Side Slope (Outside SS + Inside SS)		7:1
8. Embankment – Maximum Fill Height (ft)		10.5'
9. Maximum Excavation Depth (ft)		—
10. Total Pond Depth (ft)		10.5'
11. Liner Type and Thickness (in)	clay	
12. Inlet Type and Location	Pipe	
13. WSP Interior-Outlet Ramp Slope (z:1)		5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1500'	~~500~~ yrds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)	1500'	~~500 yards~~
18. Distance to Nearest Water Course (ft)	1000'	~~350 yards~~

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: ~~Monday April, 6, 2015~~ Time: 2:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jake N De Ruyter**

AGID: **5706** FARM NAME: **Deruyter Bros Dairy 1 & 2**

LAGOON ID: 2 Lat: N 46.34899 Long: W 120.06910

Phones: Cell:

FARM ADDRESS: 5111 Van Belle Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan NMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: partly cloudy

Temperature: 57°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.	✓		
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?	✓		
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	350'	~~117 Yards~~
2. WSP - Inside Top – Average Length (ft)	140'	~~47 Yards~~
3. WSP Storage Capacity (cu ft)		419,832 cuft
4. Embankment - Inside SS (X:1)		3:1
5. Embankment - Outside SS (Y:1)		4:1
6. Embankment – Top Width (ft)		12'
7. Combined Side Slope (Outside SS + Inside SS)		7:1
8. Embankment – Maximum Fill Height (ft)		10.5'
9. Maximum Excavation Depth (ft)		—
10. Total Pond Depth (ft)		10.5'
11. Liner Type and Thickness (in)	Clay	
12. Inlet Type and Location	Pipe @ GPS	
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)		1500'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		Berm
17. Distance to Nearest Home/Dwelling (ft)	1500'	~~500 yds~~
18. Distance to Nearest Water Course (ft)	1000'	~~300 yds~~

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: ~~Monday April, 6, 2015~~ Time: 2:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jake N De Ruyter**

AGID: **5706** FARM NAME: **Deruyter Bros Dairy 1 & 2**

LAGOON ID: 3 Lat: N 46.34944 Long: W120.06945

Phones: Cell:

FARM ADDRESS: 5111 Van Belle Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: DMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/13/15

Weather: partly cloudy

Temperature: 57°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 330'	~~110~~
2. WSP - Inside Top – Average Length (ft) 300'	~~88~~
3. WSP Storage Capacity (cu ft)	769,500 cuft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	7.5'
9. Maximum Excavation Depth (ft)	—
10. Total Pond Depth (ft)	7.5'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe @ toPS
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1500'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	Berm
17. Distance to Nearest Home/Dwelling (ft)	1500'
18. Distance to Nearest Water Course (ft) 1000'	~~300~~
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday ~~April, 6, 2015~~ Time: 2:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jake N De Ruyter**

AGID: **5706** FARM NAME: **Deruyter Bros Dairy 1 & 2**

LAGOON ID: 4 Lat: N46.35039 Long: W120.06889

Phones: Cell:

FARM ADDRESS: 5111 Van Belle Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: DMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/13/15

Weather: Partly cloudy

Temperature: 57° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft) 320'	107 yards
2. WSP - Inside Top – Average Length (ft) 430'	~~444~~ yards
3. WSP Storage Capacity (cu ft)	1,360,333 cu ft.
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	25'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	9.4'
9. Maximum Excavation Depth (ft)	—
10. Total Pond Depth (ft)	9.4'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1500'.
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	1500' ~~yards~~
18. Distance to Nearest Water Course (ft) 1000'	~~300 yards~~

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: ~~Monday April, 6, 2015~~ Time: 2:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jake N De Ruyter**

AGID: **5706** FARM NAME: **Deruyter Bros Dairy 1 & 2**

LAGOON ID: 5 Lat: N 46 35059 Long: W120. 06871

Phones: Cell:

FARM ADDRESS: 5111 Van Belle Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: DMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/13/15

Weather: Partly Cloudy

Temperature: 57°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 410'	~~137 yards~~
2. WSP - Inside Top – Average Length (ft) 440'	~~147 yards~~
3. WSP Storage Capacity (cu ft)	1,769,472 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	30'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	12'
9. Maximum Excavation Depth (ft)	—
10. Total Pond Depth (ft)	12'
11. Liner Type and Thickness (in) Clay	
12. Inlet Type and Location pipe @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	6:1
14. Distance to Nearest Well / Water Depth in well(ft)	1500' ~~yards~~
15. Failure Impacts; Farm Building, Homes, Roads, (Water Course)	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	Berms
17. Distance to Nearest Home/Dwelling (ft)	1500' ~~yards~~
18. Distance to Nearest Water Course (ft)	1800' ~~yards~~
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE LAGOON/POND CALCULATIONS

POND #1 AND #2

D= STORAGE		10.5		**AVERAGE AREA** **DERUYTER BROTHERS**
S= SIDE SLOPE		2	:1	
L= LENGTH		357		315 INSIDE LENGTH
W=WIDTH		140		98 INSIDE WIDTH
AREA=FT^2	49,980			336 AVERAGE LENGTH
TOTAL	99,960			119 AVERAGE WIDTH
FT AVERAGE		39,984		
CUBIC FT		419,832		
GALLON CAPACITY		3,140,343	EACH	
TOTAL		6,280,687		
ACRE FEET		9.6	EACH	DEPTH IS THE STORAGE DEPTH OF LAGOON
				LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS

POND # 3

D= STORAGE		7.5		**AVERAGE AREA**
S= SIDE SLOPE		2	:1	
L= LENGTH		357		327 INSIDE LENGTH
W=WIDTH		315		285 INSIDE WIDTH
AREA=FT^2	112,455			342 AVERAGE LENGTH
TOTAL				300 AVERAGE WIDTH
FT AVERAGE		102,600		
CUBIC FT		769,500		DEPTH IS THE STORAGE DEPTH OF LAGOON
GALLON CAPACITY		5,755,860		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS
ACRE FEET		17.7		

POND # 4

D= STORAGE		9.4		**AVERAGE AREA**
S= SIDE SLOPE		3	:1	
L= LENGTH		467		410.6 INSIDE LENGTH
W=WIDTH		358		301.6 INSIDE WIDTH
AREA=FT^2	167,186			438.8 AVERAGE LENGTH
				329.8 AVERAGE WIDTH
FT AVERAGE		144,716		
CUBIC FT		1,360,333		DEPTH IS THE STORAGE DEPTH OF LAGOON
GALLON CAPACITY		10,175,288		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS
ACRE FEET		31.2		

POND #5

D= STORAGE		12		**AVERAGE AREA**
S= SIDE SLOPE		3	:1	
L= LENGTH		420		348 INSIDE LENGTH
W=WIDTH		420		348 INSIDE WIDTH
AREA=FT^2	176,400			384 AVERAGE LENGTH
				384 AVERAGE WIDTH
FT AVERAGE		147,456		
CUBIC FT		1,769,472		DEPTH IS THE STORAGE DEPTH OF LAGOON
GALLON CAPACITY		13,235,651		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS
ACRE FEET		40.6		

BASINS

12 CONCRETE BASINS

D= STORAGE		4		**AVERAGE AREA**
S= SIDE SLOPE		1	:1	
L= LENGTH		150		142 INSIDE LENGTH
W=WIDTH		20		12 INSIDE WIDTH
AREA=	3,000		EACH	146 AVERAGE LENGTH
TOTAL	36,000			16 AVERAGE WIDTH
FT AVERAGE		2,336		
CUBIC FT		9,344		DEPTH IS THE STORAGE DEPTH OF LAGOON
GALLON CAPACITY		69,893	EACH	LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS
ACRE FEET		0.2	EACH	
TOTAL		838,717		

A. Site inventory

Date: Monday April, 6, 2015 9 Time: ~~11:00:00~~ 2 PM AM

Inspector: CS

LANDOWNER:

OPERATOR: **Allen Voortman**

AGID: **7052** FARM NAME: **Pride & Joy Dairy #1**

LAGOON ID: POND 1 EAST Lat: 46.36977 Long: 120.14422

Phones: Cell:

FARM ADDRESS: 2145 Liberty Rd, Granger, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring) S. EAST LAGOON

DATE: 04.06.15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 65°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

JOORTMAN POND #1

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?			
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?			
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

PIT POND

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND IS FULL - CAN'T EVALUATE LINER

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			|
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			|
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?			|
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?			|
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?			|
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?			|
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?			|
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?			|
WSP – Interior Surface	Interior erosion due to wave action?			|
WSP – Interior Surface	Interior erosion from rainfall?			|

PIT POND

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND FULL SO NO EVALUATION OF LINER - PIT POND SO NO EMBANKMENT

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	NO EVALUATION
5. Embankment - Outside SS (Y:1)	N/A
6. Embankment – Top Width (ft)	16' B/W POND 1 & 2
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	COMPACTED SOIL
12. Inlet Type and Location	GRAVITY FLOW FROM PEN
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	100 YD / 280'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	SVID to North 3/4 mi.
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, ~~6~~ 9, 2015 Time: ~~11:00:00~~ 2 PM AM

Inspector: CS

LANDOWNER:

OPERATOR: **Allen Voortman**

AGID: **7052** FARM NAME: **Pride & Joy Dairy #1**

LAGOON ID: POND 2 Lat: 46.36932 Long: 120.14437

Phones: Cell:

FARM ADDRESS: 2145 Liberty Rd, Granger, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 33 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 04.9.15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY - CLEAR

Temperature: 48° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

VOORTMAN POND 2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION NEAR INLET PIPE. ADD CONCRETE OR SOMETHING TO CREATE SPILLWAY - INLET FOR FRESHWATER ALSO SHOWS SOME EROSION

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	16' TO 8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	COMPACTED SOIL
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	100 YD / 280'
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	SVID TO NORTH 3/4 MILE
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Tom Van Ruiten**

AGID: **8005** FARM NAME: **T & D Dairy**

LAGOON ID: 1-South Lat: N46.29835 Long: W 119.94248

Phones: Cell:

FARM ADDRESS: 611 Ferson Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 50% %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny 45°

Temperature: 45° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	✓		
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	53 yards 160'
2. WSP - Inside Top – Average Length (ft)	100 300'
3. WSP Storage Capacity (cu ft)	406,000 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in)	Clay
12. Inlet Type and Location	Pipe 6PS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	280 yrds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	350 yds
18. Distance to Nearest Water Course (ft)	1/2 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 9:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Tom Van Ruiten**

AGID: **2008** FARM NAME: **Destiny Dairy & T & D Dairy**

LAGOON ID: 2 - North Lat: N46.29888 Long: W119. 94182

Phones: Cell:

FARM ADDRESS: 1260 W Puterbaugh Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 45°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	✓		
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?	✓		
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	✓		
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	✓	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.	✓	
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?	✓		
	Interior erosion from rainfall? East side of lagoon has eroded		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

T&D # 2 North

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	52 yds 155'
2. WSP - Inside Top – Average Length (ft)	103 310
3. WSP Storage Capacity (cu ft)	406,000 cu ft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in)	
12. Inlet Type and Location	clay pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	280 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	280
18. Distance to Nearest Water Course (ft)	1/2 mile

WSP – STRUCTURE COMMENTS / NOTES

POND CALCULATIONS

DAIRY WASTE	D= STORAGE		10		**AVERAGE AREA**	**T & D Dairy**
LAGOON/POND	S= SIDE SLOPE		2	:1	Jul-06	
CALCULATIONS	L= LENGTH		300		260	INSIDE LENGTH
	W=WIDTH		165		125	INSIDE WIDTH
	AREA=FT^2	49,500			280	AVERAGE LENGTH
	TOTAL				145	AVERAGE WIDTH
POND #1	FT AVERAGE		40,600			
	CUBIC FT		406,000			
	GALLON CAPACITY		3,036,880			
	TOTAL					
	ACRE FEET		9.3		DEPTH IS THE STORAGE DEPTH OF LAGOON	
					LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	D= STORAGE		10		**AVERAGE AREA**	
	S= SIDE SLOPE		2	:1		
POND #2	L= LENGTH		300		260	INSIDE LENGTH
	W= WIDTH		165		125	INSIDE WIDTH
	AREA=FT^2	49,500			280	AVERAGE LENGTH
	TOTAL				145	AVERAGE WIDTH
	FT AVERAGE		40,600			
	CUBIC FT		406,000		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		3,036,880		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		9.3			
Concrete Sump Pit	D= STORAGE		8		**AVERAGE AREA**	
Dairy #2	S= SIDE SLOPE		1	:1		
	L= LENGTH		60		44	INSIDE LENGTH
(Below ground-covered)	W=WIDTH		12		-4	INSIDE WIDTH
	AREA=FT^2				52	AVERAGE LENGTH
					4	AVERAGE WIDTH
	FT AVERAGE		208			
	CUBIC FT		1,664		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		12,447		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.0			
	D= STORAGE				**AVERAGE AREA**	
	S= SIDE SLOPE		2	:1		
	L= LENGTH				0	INSIDE LENGTH
	W=WIDTH				0	INSIDE WIDTH
	AREA=	0			0	AVERAGE LENGTH
					0	AVERAGE WIDTH
	FT AVERAGE		0			
	CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.0			
SURFACE AREA =	99,000		6,086,207	GALLONS		

A. Site inventory

Date: Thursday April, 9, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **John Koopmans**

AGID: **8986** FARM NAME: **Highview Inc #1**

LAGOON ID: MAIN Lat: 46.42982 Long: 120.23638

Phones: Cell:

FARM ADDRESS: 3970 Highland Dr, Zillah, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 33 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

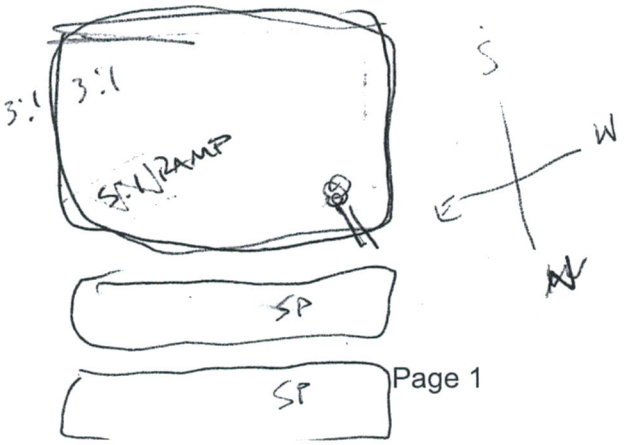
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 57°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF) KOOPMANS #1 MAIN

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X	NA	
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION NEAR INLET PIPE

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 8" TO CEMENT SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1000' / 500' ?
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD - TO S.W.
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1000'
18. Distance to Nearest Water Course (ft)	1/2 MI UPGRADIENT ROZA CANAL

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **John Koopmans**

AGID: **2021** FARM NAME: **Highview Inc #2**

LAGOON ID: LAGOON 1 Lat: 46.43733 Long: 120.31256

Phones: Cell:

FARM ADDRESS: 250 White Rd, Zillah, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

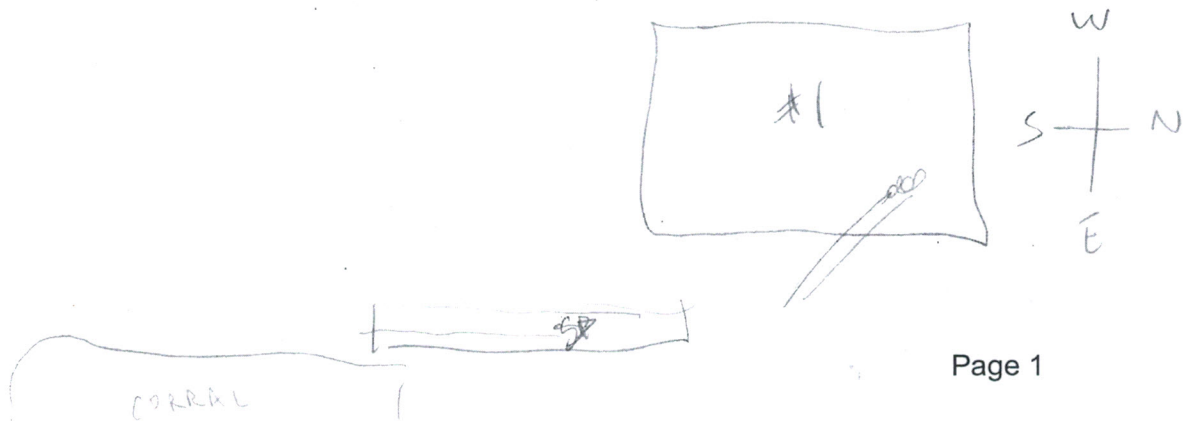
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 64

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

KOOPMAN

POND 1

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?			X
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?			
	Evidence of seepage on the embankment slope?			
	Evidence of seepage around pipes through berm?			
	Evidence of differential (uneven) settlement?			
	Evidence of seepage at the toe of the embankment?			
	Evidence of sand boils on the slope, along the toe or near the toe?			
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: PIT POND - WEEDS OBSCURE INTERIOR SLOPE - COULD NOT EVALUATE -

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1 ?
5. Embankment - Outside SS (Y:1)	NA
6. Embankment – Top Width (ft)	NA (12' B/W POND + ST)
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 6"
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 / 300' ?
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	NONE - PIT
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8
18. Distance to Nearest Water Course (ft)	SVID - 100 YDS UPGRADIENT
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **John Koopmans**

AGID: **2021** FARM NAME: **Highview Inc #2**

LAGOON ID: #2 Lat: 46.43585 Long: 120.31358

Phones: Cell:

FARM ADDRESS: 250 White Rd, Zillah, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 5 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SUNNY

Temperature: 65

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF) KOOPMAN POND #2

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?			X
	Evidence of soil erosion or gully on embankment?			X
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

PIT POND

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: WEEDS OBSTRUCT GOOD VIEW OF INTERIOR BANK - IF CLEANING OUT POND THIS YEAR - REMOVE WEEDS -

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?			
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?			
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

PIT POND

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: WEEDS OBSCURE INSIDE BANK

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	STEEP 1:1 ?
5. Embankment - Outside SS (Y:1)	NA
6. Embankment – Top Width (ft)	NA
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PIPE @ 4"
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 / 300'? ±
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	NA - PIT
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8
18. Distance to Nearest Water Course (ft)	SUNNYSIDE CANAL - UPGRADIENT 100 YDS.
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 4:30:00 PM

Inspector: CS

LANDOWNER:

POND #2

OPERATOR: **Dirk Van Slageren**

AGID: **9024** FARM NAME: **Cherry Hill Dairy Inc**

LAGOON ID: POND 2 Lat: 46.33680 Long: 120.16914

Phones: Cell:

FARM ADDRESS: 101 Gap Rd, Granger, WA / PO BOX 268 GRANGER 98932 ✓ MAILING

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: _____ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

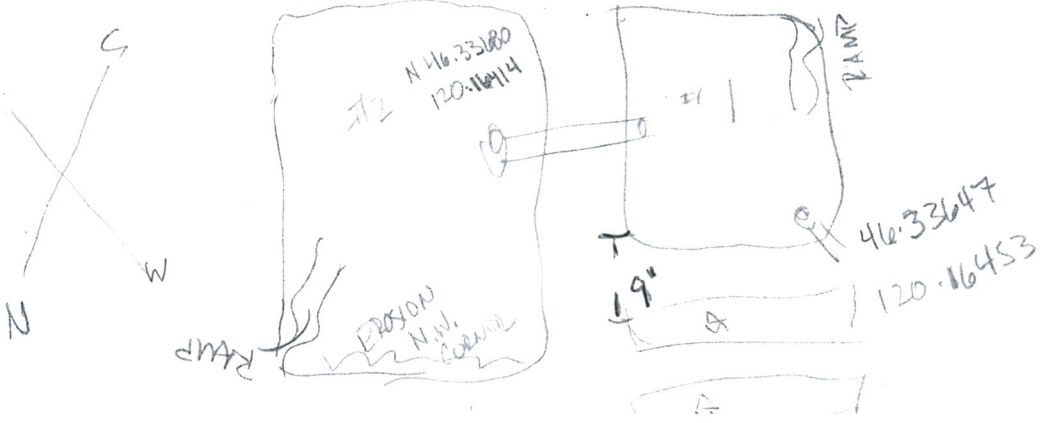
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SUNNY

Temperature: 60

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

Cherish Hill
Pond #2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?	X		
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL - SEE TWO RODENT HOLES - WEEDS INSIDE BANK

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: INTERIOR EROSION FROM PUMPING MANURE IN FROM ALLEY VAC.

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF) POND 2

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	133
2. WSP - Inside Top – Average Length (ft)	283
3. WSP Storage Capacity (cu ft)	276,645 (2,690,305)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	9
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	8.5
9. Maximum Excavation Depth (ft)	12.5
10. Total Pond Depth (ft)	9.5
11. Liner Type and Thickness (in)	AMENDED CLAY SOIL/12"
12. Inlet Type and Location	PVC 10" TO CEMENT RAMP
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	BERMED FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	1/4 GRANGER DRAIN X-FREEWAY
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 4:30:00 PM

Inspector: CS

LANDOWNER:

POND #1

OPERATOR: **Dirk Van Slageren**

AGID: **9024** FARM NAME: **Cherry Hill Dairy Inc**

LAGOON ID: POND 1 Lat: 46.33647 Long: 120.16453

Phones: Cell:

FARM ADDRESS: 101 Gap Rd, Granger, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3.5 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SUNNY

Temperature: 61° F

Soil surface: (dry) moist, wet, saturated, standing water, frozen, snow covered

NRCS

(SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF) CHERRY HILL POND #1

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND #1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	77
2. WSP - Inside Top – Average Length (ft)	177
3. WSP Storage Capacity (cu ft)	137,356 (1,420,383)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	11'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	11.5
9. Maximum Excavation Depth (ft)	13.5
10. Total Pond Depth (ft)	12.5
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC & CEMENT DAM
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD - BERMED
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	GRANGER DRAIN 1/4 MILE E- FREEWAY
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **John Prins**

AGID: **9284** FARM NAME: **John Prins Dairy #1**

LAGOON ID: MAIN Lat: Long:

Phones: Cell:

FARM ADDRESS: 1690 Hudson Rd, Granger, WA

REVIEW INVENTORY DATE: 04.06.15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 20' FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

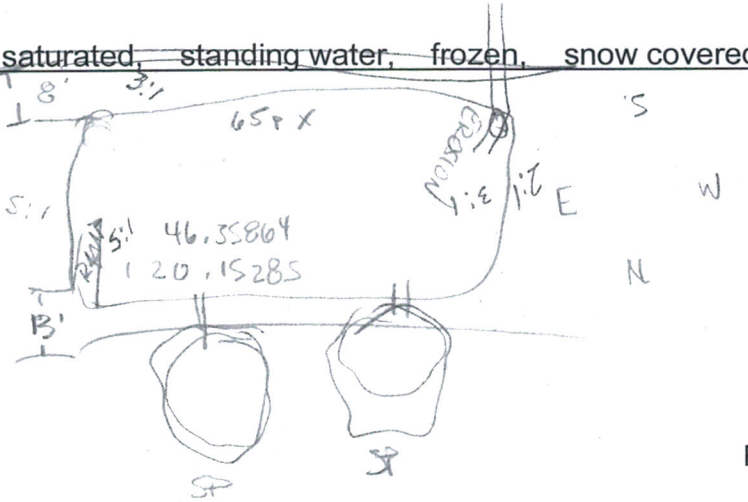
☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 57° F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

PRINS #1

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: INLET FROM STORM RUNOFF COLLECT PIT - SOME EROSION IN S.W. CORNER.

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	144'
2. WSP - Inside Top – Average Length (ft)	136
3. WSP Storage Capacity (cu ft)	209,381 (1.566 MG)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1 TO 5:1
6. Embankment – Top Width (ft)	13' TO 8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	8.5
9. Maximum Excavation Depth (ft)	10.5
10. Total Pond Depth (ft)	9.5
11. Liner Type and Thickness (in)	SOIL AMENDED CLAY
12. Inlet Type and Location	12" PVC TO CONCRETE
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	TO CORRALL THEN TO FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	GRANGER DRAIN ABOUT 3 MILE
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 11:30:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Frank Leyendekker**

AGID: **9561** FARM NAME: **Harrison Road Dairy**

LAGOON ID: 1 Lat: N46.326282 Long: W119.917718

Phones: Cell:

FARM ADDRESS: 1860 Harrison Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 47°

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	✓		
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

Harrison

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft)	~~20~~ / ~~Yards~~ 55'
2. WSP - Inside Top – Average Length (ft)	~~154~~ / ~~Yards~~ 510'
3. WSP Storage Capacity (cu ft)	124,363 cu ft
4. Embankment - Inside SS (X:1)	~~3:1~~ 4:1
5. Embankment - Outside SS (Y:1)	~~4:1~~ 3:1
6. Embankment – Top Width (ft)	15'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	6.5
10. Total Pond Depth (ft)	6.5'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	Pipe @ CPS
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	250 yards
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	250 yds
18. Distance to Nearest Water Course (ft)	50 yds

WSP – STRUCTURE COMMENTS / NOTES

POND CALCULATIONS

DAIRY WASTE LAGOON/POND CALCULATIONS

POND #1

D= STORAGE		6.5		**AVERAGE AREA**	**Harrison Road Dairy**
S= SIDE SLOPE		2.5	:1		
L= LENGTH		510		477.5	INSIDE LENGTH
W=WIDTH		55		22.5	INSIDE WIDTH
AREA=FT^2	28,050			493.75	AVERAGE LENGTH
TOTAL					
				38.75	AVERAGE WIDTH
FT AVERAGE		19,133			
CUBIC FT		124,363			
GALLON CAPACITY		930,237			
TOTAL					
ACRE FEET		2.9		DEPTH IS THE STORAGE DEPTH OF LAGOON	
				LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	

Pond # 2 (Proposed)

D= STORAGE		8		**AVERAGE AREA**	
S= SIDE SLOPE		3	:1		
L= LENGTH		200		152	INSIDE LENGTH
W=WIDTH		100		52	INSIDE WIDTH
AREA=FT^2	20,000			176	AVERAGE LENGTH
TOTAL					
				76	AVERAGE WIDTH
FT AVERAGE		13,376			
CUBIC FT		107,008		DEPTH IS THE STORAGE DEPTH OF LAGOON	
GALLON CAPACITY		800,420		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
ACRE FEET		2.5			

Sediment Basin #1

D= STORAGE				**AVERAGE AREA**	
S= SIDE SLOPE			:1		
L= LENGTH				0	INSIDE LENGTH
W=WIDTH				0	INSIDE WIDTH
AREA=FT^2	0			0	AVERAGE LENGTH
				0	AVERAGE WIDTH
FT AVERAGE		0			
CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
ACRE FEET		0.0			

Sediment Basin #2

D= STORAGE				**AVERAGE AREA**	
S= SIDE SLOPE			:1		
L= LENGTH				0	INSIDE LENGTH
W=WIDTH				0	INSIDE WIDTH
AREA=	0			0	AVERAGE LENGTH
				0	AVERAGE WIDTH
FT AVERAGE		0			
CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
ACRE FEET		0.0			

Sediment Basin #3

D= STORAGE				**AVERAGE AREA**	
S= SIDE SLOPE			:1		
L= LENGTH				0	INSIDE LENGTH
W=WIDTH				0	INSIDE WIDTH
AREA=	0			0	AVERAGE LENGTH
				0	AVERAGE WIDTH
FT AVERAGE		0			
CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
ACRE FEET		0.0			

SURFACE AREA:	48,050	**Total Storage (gal)**	1,730,657

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Tony Veiga**

AGID: **9659** FARM NAME: **J & K Dairy LLC #1 & #2**

LAGOON ID: 1 Lat: N46.32671 Long: W119.89309

Phones: Cell:

FARM ADDRESS: 7190 E Edison Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 25 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 60°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?			
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material? wave	✓		
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action? minor	✓		
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	136 yards 410'
2. WSP - Inside Top – Average Length (ft)	130 yards 390'
3. WSP Storage Capacity (cu ft)	577,748 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	5:1
6. Embankment – Top Width (ft)	10'
7. Combined Side Slope (Outside SS + Inside SS)	9:1
8. Embankment – Maximum Fill Height (ft)	7'
9. Maximum Excavation Depth (ft)	-
10. Total Pond Depth (ft)	7'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe & CPS
13. WSP Interior-Outlet Ramp Slope (z:1)	6:1
14. Distance to Nearest Well / Water Depth in well(ft)	275 yards
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	275 yards
18. Distance to Nearest Water Course (ft)	1 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Tony Veiga**

AGID: **9659** FARM NAME: **J & K Dairy LLC #1 & #2**

LAGOON ID: 2 Lat: N 46. 32896 Long: W119.90514

Phones: Cell:

FARM ADDRESS: 7190 E Edison Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 12 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 60° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment? minor	✓		
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure? minor	✓		
	Interior erosion near agitation equipment access points? minor	✓		
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall? Irrigation, but minor	✓		

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	100 yds 300'
2. WSP - Inside Top – Average Length (ft)	150 yds 450'
3. WSP Storage Capacity (cu ft)	1,379,712 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	13'
10. Total Pond Depth (ft)	13'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	300 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	300 yds
18. Distance to Nearest Water Course (ft)	1/4 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Tony Veiga**

AGID: **9659** FARM NAME: **J & K Dairy LLC #1 & #2**

LAGOON ID: Catch basin Lat: N46.33175 Long: W119.90433

Phones: Cell:

FARM ADDRESS: 7190 E Edison Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 60°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?			✓
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?			✓
	All recycling pumps and transfer pipes are functional?			✓
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	40 yds 120
2. WSP - Inside Top – Average Length (ft)	70 210
3. WSP Storage Capacity (cu ft)	102,305 cuft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	10
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	8'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location Natural	
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	20 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft)	20 yd
18. Distance to Nearest Water Course (ft)	1/2 mile
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE		ED= POND DEPTH		7		**AVERAGE AREA**	**September-13**
		FB=FREEBOARD		1.5			
		S=SIDE SLOPE		3	:1	**J & K Dairy #1**	
		EL=POND LENGTH		335			
		EW=POND WIDTH		365			
		LL=LIGUID LENGTH		326			
		LW=LIQUID WIDTH		356			
		LD=LIQUID DEPTH		5.5			
LAGOON/POND CALCULATIONS						293	INSIDE LENGTH
						323	INSIDE WIDTH
		AREA=FT^2	122,275			314	AVERAGE LENGTH
						344	AVERAGE WIDTH
POND #1		FT AVERAGE		108,016			
		CUBIC FT		577,748			
		GALLON CAPACITY		4,321,551			
		ACRE FEET		13.3			

DAIRY WASTE		ED= POND DEPTH		13		**AVERAGE AREA**	
		FB=FREEBOARD		1			
		S=SIDE SLOPE		2	:1		
		EL=POND LENGTH		450			
		EW=POND WIDTH		300			
		LL=LIGUID LENGTH		446			
		LW=LIQUID WIDTH		296			
		LD=LIQUID DEPTH		12			
LAGOON/POND CALCULATIONS						398	INSIDE LENGTH
						248	INSIDE WIDTH
		AREA=FT^2	135,000			424	AVERAGE LENGTH
						274	AVERAGE WIDTH
POND #2		FT AVERAGE		116,176			
		CUBIC FT		1,379,712			
		GALLON CAPACITY		10,320,246			
		ACRE FEET		31.7			

DAIRY WASTE		ED= POND DEPTH				**AVERAGE AREA**	
		FB=FREEBOARD		1			
		S=SIDE SLOPE			:1		
		EL=POND LENGTH					
		EW=POND WIDTH					
		LL=LIGUID LENGTH		0			
		LW=LIQUID WIDTH		0			
		LD=LIQUID DEPTH					
LAGOON/POND CALCULATIONS						0	INSIDE LENGTH
						0	INSIDE WIDTH
		AREA=FT^2	0			0	AVERAGE LENGTH
						0	AVERAGE WIDTH
Catch Basin		FT AVERAGE		0			
		CUBIC FT		0			
		GALLON CAPACITY		0			
		ACRE FEET		$ -			

SURFACE AREA =		257,275		14,641,797	GALLONS		

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Sid Leyendekker**

AGID: **9665** FARM NAME: **Hidden Valley Dairy**

LAGOON ID: POND 1 Lat: 46.18370 Long: 120.01741

Phones: Cell:

FARM ADDRESS: 2253 Boundary Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 04/07/15

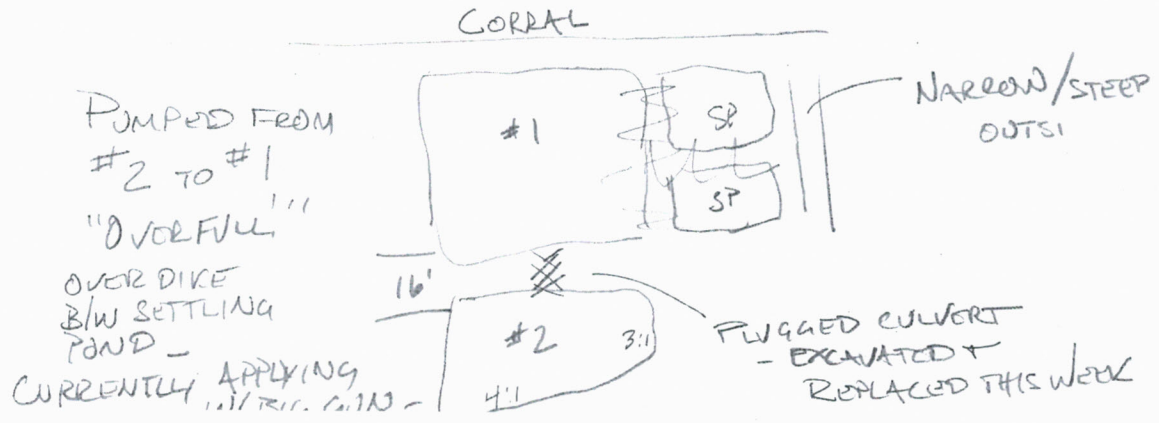
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 60° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

S. LEYENDECKER POND 1

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?			
	Pond transfer pipe/structure is clear and unobstructed?			
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?			
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?			
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: COULD NOT EVALUATE INTERIOR AS POND WAS OVER CAPACITY

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	X	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice. REPLACE CULVERT/SPILLWAY R/W POND #2	X	
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / ~~Compacted Clay~~ / Flexible Membrane / ~~Bentonite Amendment~~ (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?			
WSP – Interior Surface	Interior erosion from rainfall?			

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: COULD NOT EVALUATE INTERIOR BECAUSE FULL TO CAPACITY (NO FREE BOARD)

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	COULD NOT EVALUATE
5. Embankment - Outside SS (Y:1)	LEVEL W/ CORRALS
6. Embankment – Top Width (ft)	16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	BENTONITE AMENDED 12"
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE /
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/2 MI
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 3:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Sid Leyendekker**

AGID: **9665** FARM NAME: **Hidden Valley Dairy**

LAGOON ID: POND 2 Lat: 46,18370 Long: 120.01741

Phones: Cell:

FARM ADDRESS: 2253 Boundary Rd, Mabton, WA

REVIEW INVENTORY DATE: 04.07.15

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 60° F

Soil surface: (dry) moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

S. LEYENDEKKER POND 2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1 / 4:1
5. Embankment - Outside SS (Y:1)	LEVEL W/ SCRAPE EDGE OUT
6. Embankment – Top Width (ft)	16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY BENTONITE
12. Inlet Type and Location	~~PIPE~~
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/2 MI
18. Distance to Nearest Water Course (ft)	
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 2:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Will Bron**

AGID: **9801** FARM NAME: **Bron Dairy #1**

LAGOON ID: SETTLING POND Lat: Long:

Phones: Cell:

FARM ADDRESS: 640 Nelson Rd, Granger, WA

REVIEW INVENTORY DATE: 04.06.15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

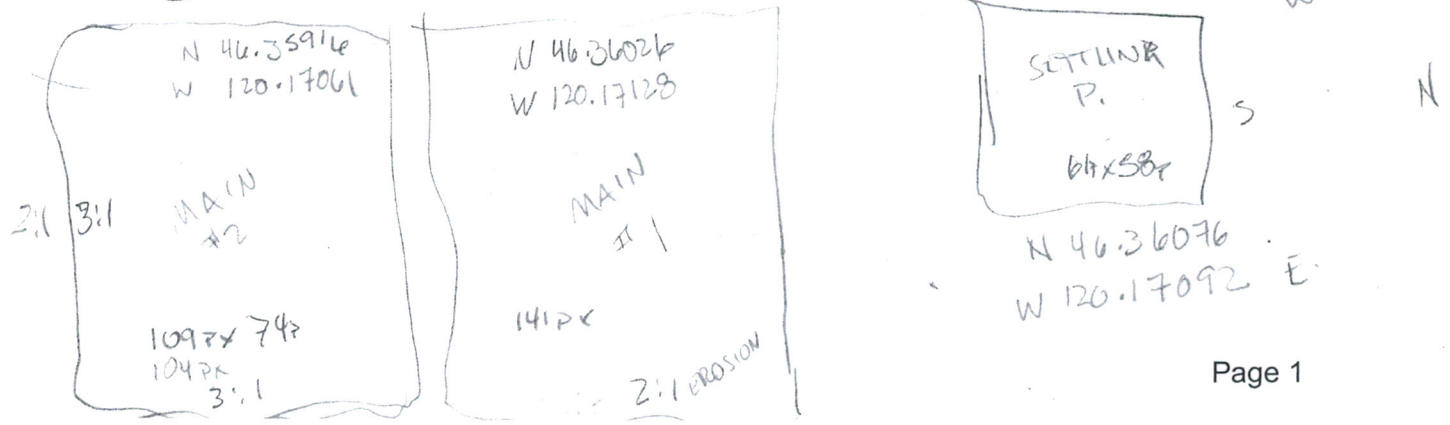
DATE:

Weather: CLEAR

Temperature: 58°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

#3 SETTLING BASINS



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BRON
SETTLING POND

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X/A
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?		X	
	All recycling pumps and transfer pipes are functional?		X	
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: CONCRETE SETTLING CELL OVERTOPPED

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SETTLING POND

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	CONCRETE SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	3:1
14. Distance to Nearest Well / Water Depth in well(ft)	?
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	DRAINS TO FIELD.
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	NA
17. Distance to Nearest Home/Dwelling (ft)	1/6 MILE
18. Distance to Nearest Water Course (ft)	SOME ROAD DITCH GRANGER DRAIN
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Monday April, 6, 2015 Time: 2:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Will Bron**

AGID: **9801** FARM NAME: **Bron Dairy #1**

LAGOON ID: MAIN 1 Lat: Long:

Phones: Cell:

FARM ADDRESS: 640 Nelson Rd, Granger, WA

REVIEW INVENTORY DATE: 04.06.15

MANURE/ EFFLUENT LEVEL: 30 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: _____

_____

Temperature: _____

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BRON

MAIN

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			✓
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME WIND EROSION ON EAST END

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / ~~Compacted Clay~~ / Flexible Membrane / ~~Bentonite Amendment~~ **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: KOSHA BUILD UP IN EAST END OF POND – SOME SPRAYING HAS OCCURED.

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BROWN MAIN #1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	2:1 & 3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	16' TO 11'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	3:1
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	DRAINS TO FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS (YES)
17. Distance to Nearest Home/Dwelling (ft)	1/6 MILE
18. Distance to Nearest Water Course (ft)	3 MI GRANGER DRAIN

WSP – STRUCTURE COMMENTS / NOTES
PUMPS TO MOVE MANURE

A. Site inventory

Date: 04.06.15 Time: 2 PM

Inspector: C.S.

LANDOWNER: WILL BROON

OPERATOR: ↙

AGID: FARM NAME: BROON DAIRY #1

LAGOON ID: MAIN #2 Lat: 46.35916 Long: 120.17061

Phones: Cell:

FARM ADDRESS:

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: _____ %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: _____ FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: _____

_____

Temperature: _____

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

BRON MAIN #2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			✓
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME OLD KOSHA & RUSSIAN THISTLE SKELETONS PILING UP IN END OF POND

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / ~~Compacted Clay~~ / Flexible Membrane / ~~Bentonite Amendment~~ (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION ON INTERIOR ON EAST END.

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	
2. WSP - Inside Top – Average Length (ft)	
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1 / 2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	11'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	3:1
14. Distance to Nearest Well / Water Depth in well(ft)	
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1/6 mi
18. Distance to Nearest Water Course (ft)	3 mi GRANGER

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 2:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Dale Swager**

AGID: **9831** FARM NAME: **Swager Dairy**

LAGOON ID: 1 Lat: N 46.30315 Long: W 119. 88055

Phones: Cell:

FARM ADDRESS: 2221 Alexander Ext, Grandview, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 65°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material? South bank	✓		
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action? South bank	✓		
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	80'	~~85 Yards~~ ~~85'~~
2. WSP - Inside Top – Average Length (ft)	150'	~~151~~ ~~145'~~
3. WSP Storage Capacity (cu ft)		71,893 cuft
4. Embankment - Inside SS (X:1)		3:1
5. Embankment - Outside SS (Y:1)		4:1
6. Embankment – Top Width (ft)		8'
7. Combined Side Slope (Outside SS + Inside SS)		7:1
8. Embankment – Maximum Fill Height (ft)		—
9. Maximum Excavation Depth (ft)		11'
10. Total Pond Depth (ft)		11'
11. Liner Type and Thickness (in)	clay	
12. Inlet Type and Location	Pipe @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)		100 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)		100 yd
18. Distance to Nearest Water Course (ft)		1/2 mile upgradient
WSP – STRUCTURE COMMENTS / NOTES		

A. Site inventory

Date: Tuesday April, 7, 2015 Time: 2:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Dale Swager**

AGID: **9831** FARM NAME: **Swager Dairy**

LAGOON ID: 2 Lat: N46.30318 Long: W119.88094

Phones: Cell:

FARM ADDRESS: 2221 Alexander Ext, Grandview, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 67°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓	✓	
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	150' ~~55~~ 165 yds
2. WSP - Inside Top – Average Length (ft)	125' ~~88~~ 385'
3. WSP Storage Capacity (cu ft)	96,147 cu ft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe (w) 6PS
13. WSP Interior-Outlet Ramp Slope (z:1)	6:1
14. Distance to Nearest Well / Water Depth in well(ft)	100 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release, (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	100 yds
18. Distance to Nearest Water Course (ft)	1/2 mile upgradient
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	11		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1	**Swager 2009**		
	EL=POND LENGTH	150				
	EW=POND WIDTH	80				
	LL=LIGUID LENGTH	146				
	LW=LIQUID WIDTH	76				
	LD=LIQUID DEPTH	10				
LAGOON/POND CALCULATIONS					106	INSIDE LENGTH
					36	INSIDE WIDTH
	AREA=FT^2	12,000			128	AVERAGE LENGTH
					58	AVERAGE WIDTH
POND #1	FT AVERAGE	7,424				
	CUBIC FT	71,893				
	GALLON CAPACITY	537,762				
	ACRE FEET	1.7				

DAIRY WASTE	ED= POND DEPTH	10		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1			
	EL=POND LENGTH	310				
	EW=POND WIDTH	150				
	LL=LIGUID LENGTH	306				
	LW=LIQUID WIDTH	146				
	LD=LIQUID DEPTH	9				
LAGOON/POND CALCULATIONS					270	INSIDE LENGTH
					110	INSIDE WIDTH
	AREA=FT^2	46,500			290	AVERAGE LENGTH
					130	AVERAGE WIDTH
Basins	FT AVERAGE	37,700				
	CUBIC FT	332,748				
	GALLON CAPACITY	2,488,955				
	ACRE FEET	7.6				

DAIRY WASTE	ED= POND DEPTH	10		**AVERAGE AREA**		
	FB=FREEBOARD	1				**2008**
	S=SIDE SLOPE	3	:1			
	EL=POND LENGTH	125				
	EW=POND WIDTH	150				
	LL=LIGUID LENGTH	119				
	LW=LIQUID WIDTH	144				
	LD=LIQUID DEPTH	9				
LAGOON/POND CALCULATIONS					65	INSIDE LENGTH
					90	INSIDE WIDTH
	AREA=FT^2	18,750			95	AVERAGE LENGTH
					120	AVERAGE WIDTH
POND #2	FT AVERAGE	11,400				
	CUBIC FT	96,147				
	GALLON CAPACITY	719,180				
	ACRE FEET	2.2				

SURFACE AREA =	58,500	3,026,717	GALLONS	Plus 300,000 (clay lined catch basin)

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Bill Scheenstra**

AGID: **9863** FARM NAME: **Sun Valley Dairy LLC #1**

LAGOON ID: MAIN Lat: 46.29915 Long: 119.98694

Phones: Cell:

FARM ADDRESS: 2850 Alexander Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

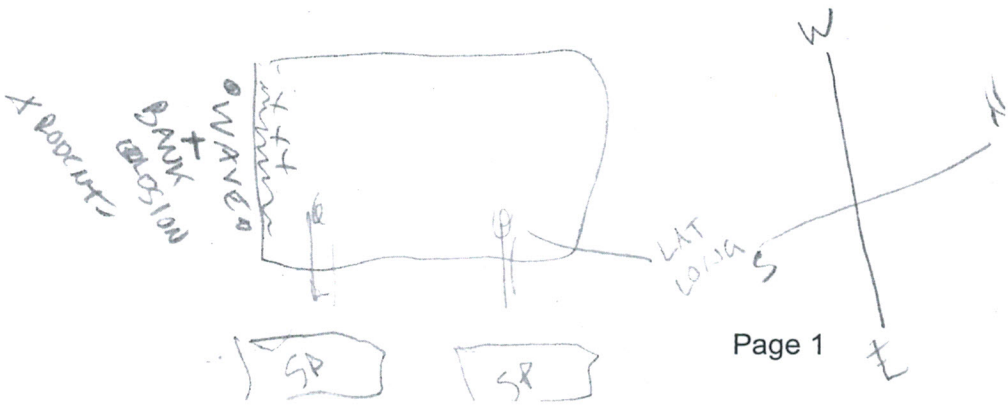
☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 58

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered



NRCS

(SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

MAIN SCHEENSTRA SUN VALLEY DAIRY LLC #1

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME RODENTS ON SE SIDE

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SE SIDE OF LAGOON SHOWS BANK EROSION & WIND/WAVE EROSION - SOME RODENT ACTIVITY

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	213
2. WSP - Inside Top – Average Length (ft)	368
3. WSP Storage Capacity (cu ft)	611,888 (4,576,922)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	30' + TO 16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	8
9. Maximum Excavation Depth (ft)	10
10. Total Pond Depth (ft)	9
11. Liner Type and Thickness (in)	SOIL AMENDED LINERS
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	PASTURES
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 MILE
18. Distance to Nearest Water Course (ft)	30' TO IRRIGATION CHAN.
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **Bill Scheenstra**

AGID: **2171** FARM NAME: **Sun Valley Dairy LLC #2**

LAGOON ID: MAIN Lat: 46.26654 Long: 119.99075

Phones: Cell:

FARM ADDRESS: 340 Den Boer Rd, Grandview, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: _____

_____

Temperature: _____

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SCHEENSTRA #2 MAIN

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X	
1	Was the WSP modification designed by a qualified individual?		X	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?	X		
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: EROSION AROUND INTERIOR OF BANK ON ALL SIDES – ALSO RODENT HOLES B/W MAIN & WALTERS POND

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND #1

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	133
2. WSP - Inside Top – Average Length (ft)	258
3. WSP Storage Capacity (cu ft)	326,608 (2,443,028)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1 & LEVEL
6. Embankment – Top Width (ft)	8' BW MAINT WALKS
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	8
9. Maximum Excavation Depth (ft)	10
10. Total Pond Depth (ft)	9
11. Liner Type and Thickness (in)	CALAMENDED LINERS
12. Inlet Type and Location	PVC SLOPE
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/8 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 MILE
18. Distance to Nearest Water Course (ft)	SULFUR CREEK 2 MI
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 1:00:00 PM

Inspector: CS

LANDOWNER:

OPERATOR: **William Scheenstra**

AGID: **10088** FARM NAME: **Sun Valley Dairy LLC #3**

LAGOON ID: SETTLING POND 2 Lat: 46.26356 Long: 119.98532

Phones: Cell:

FARM ADDRESS: 731 Den Boer Rd, Grandview, WA

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

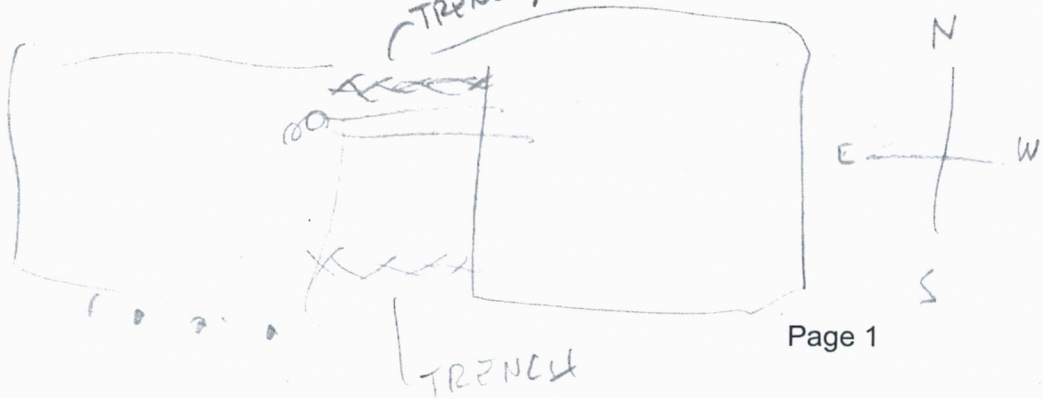
Weather: OVERCAST

Temperature: 65°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

FIELD

CRACKING ON SOILS



SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SCREENSHOT #3
SETTLING POND -

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	✓		
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?	✓		
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			✓
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	—	—	—
	Interior erosion near agitation equipment access points?	—	—	—
	General erosion of liner material?	—	—	—
	Damaged liner material (holes, tears, seams)?	—	—	—
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: COULD NOT EVALUATE INTERIOR DUE TO WEED GROWTH

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	✓	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.	✓	

HEAVY SOLIDS PILED ON OUTSIDE OF BANK W/ CRACKS SHOULD BE EVALUATED FOR STRUCTURAL INTEGRITY & RODENT CONTROL

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?			
	If applicable; Are perimeter drain(s) plugged or blocked?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?	X		
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?			
	Interior erosion from rainfall?			

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: COULD NOT EVALUATE INTERIOR. CRACKS IN SOLID LAYER ON EXTERIOR BANK.

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

*BEST GUESS BASED ON POND 1 - VISUALLY THEY LOOK THE SAME

SCREENSTRA ~~PONT~~ III SETTLING POND

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft) *	95
2. WSP - Inside Top – Average Length (ft) *	225
3. WSP Storage Capacity (cu ft) *	127,656 (954,869)
4. Embankment - Inside SS (X:1) *	2.5:1
5. Embankment - Outside SS (Y:1)	4:1 - MANURE SOLIDS ON BANK
6. Embankment – Top Width (ft)	7 TO 8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft) *	5
9. Maximum Excavation Depth (ft) *	7
10. Total Pond Depth (ft) *	10
11. Liner Type and Thickness (in)	CLAY AMENDED
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	~~PASTURE~~ FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1 MI
18. Distance to Nearest Water Course (ft)	YAKIMA RVR 3 MI APPROX?

WSP – STRUCTURE COMMENTS / NOTES

SOLIDS PILED ON EXTERIOR BANK ARE CRACKED —
RODENT HOLES ON BANK
HEAVY WEEDS = NO INTERIOR EVAL —

A. Site inventory

Date: , 04.08.15 Time: 1:00

Inspector: C.S.

LANDOWNER:

OPERATOR: BILL SCHEENSTRA

AGID: 2171 FARM NAME: SUN VALLEY #3

LAGOON ID: SETTLING POND 1 Lat: 46.26556 Long: 119.98535

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: 04.08.15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: OVERCAST

Temperature: 65° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SCHOENSTRA #3 POND 1 (2 PONDS) NEEDS WORK B/W PONDS & BANK REDUCTS

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	X		
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?	X		
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?			
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: WEEDS WERE TOO HEAVY TO EVALUATE INTERIOR

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	X	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.	X	

EXTERIOR BANK LOOKS LIKE EXCAVATED SOLIDS - LARGE CRACKS IN BANK SLOPE - BUT NO EVIDENCE OF SEEPAGE. HEAVY WEEDS.

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		—	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?		—	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?	X		
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	—		
WSP – Interior Surface	Interior erosion from rainfall?	—		

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: COULD NOT EVALUATE INTERIOR DUE TO EROSION

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	95
2. WSP - Inside Top – Average Length (ft)	225
3. WSP Storage Capacity (cu ft)	127,656 (954,869)
4. Embankment - Inside SS (X:1)	2.5:1
5. Embankment - Outside SS (Y:1)	4:1 - MANURE SOLIDS BANK
6. Embankment – Top Width (ft)	7 TO 8 FT
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	5
9. Maximum Excavation Depth (ft)	7'
10. Total Pond Depth (ft)	6'
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL/12"
12. Inlet Type and Location	PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELDS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	1 MI
18. Distance to Nearest Water Course (ft)	3 MI - RIVER?
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: ~~Wednesday April, 8, 2015~~ Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Bill De Ruyter**

AGID: **9882** FARM NAME: **View Point Dairy**

LAGOON ID: 1 Lat: N46. 37807 Long: W 119. 94036

Phones: Cell:

FARM ADDRESS: 1400 Lewandowski Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan MC **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 61°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) ~~220'~~	~~70~~ yards 220'
2. WSP - Inside Top – Average Length (ft) ~~2000'~~	~~87~~ 315'
3. WSP Storage Capacity (cu ft)	420,415 cu ft
4. Embankment - Inside SS (X:1)	Too Full
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	20'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	8'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	~~50~~ too full
14. Distance to Nearest Well / Water Depth in well(ft) 1500'	~~500 yds~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft) 1500'	~~500~~ yds
18. Distance to Nearest Water Course (ft)	1 mile

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Bill De Ruyter**

AGID: **9882** FARM NAME: **View Point Dairy**

LAGOON ID: 2 Lat: N46.37738 Long: W119.94110

Phones: Cell:

FARM ADDRESS: 1400 Lewandowski Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

[X] WSP is FULL (Typically late winter or early spring)

DATE:

[ ] WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 67° F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) ~~100'~~	54 220'
2. WSP - Inside Top – Average Length (ft) ~~225'~~	~~75~~ 315'
3. WSP Storage Capacity (cu ft)	420,415 cu ft
4. Embankment - Inside SS (X:1)	Too full
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	20'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	8'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location	pipe @ 6RS
13. WSP Interior-Outlet Ramp Slope (z:1)	Too full
14. Distance to Nearest Well / Water Depth in well(ft) 1500'	~~500 yds~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release, (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft) 1500'	~~500 yds~~
18. Distance to Nearest Water Course (ft)	1 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Bill De Ruyter**

AGID: **9882** FARM NAME: **View Point Dairy**

LAGOON ID: 3 Lat: N46.37675 Long: W119.94175

Phones: Cell:

FARM ADDRESS: 1400 Lewandowski Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 75 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 5 FT.

Completed by: Dan NRCS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 67°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall? Irrigation overflow on west bank	✓		

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) ~~200'~~	~~57~~ yds 220'
2. WSP - Inside Top – Average Length (ft) ~~200'~~	~~70~~ / 315'
3. WSP Storage Capacity (cu ft)	470,415 cuft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	20'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	8'
10. Total Pond Depth (ft)	8'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location Pipe	@ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	4:1
14. Distance to Nearest Well / Water Depth in well(ft) 1500'	~~500~~ yds
15. Failure Impacts; Farm Building, Homes, Roads, (Water Course)	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft) 1500'	~~500 yds~~
18. Distance to Nearest Water Course (ft)	1+ mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 3:30:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Bill De Ruyter**

AGID: **9882** FARM NAME: **View Point Dairy**

LAGOON ID: 4 Lat: N46.37907 Long: W119.93983

Phones: Cell:

FARM ADDRESS: 1400 Lewandowski Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 4/16/15

MANURE/ EFFLUENT LEVEL: 95 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny

Temperature: 67°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?	✓		
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) ~~265'~~	88 yds 225'
2. WSP - Inside Top – Average Length (ft) ~~265'~~	69 yds 225'
3. WSP Storage Capacity (cu ft)	371,853' cuft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	10'
10. Total Pond Depth (ft)	10'
11. Liner Type and Thickness (in) Clay	
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft) 1500'	~~500 yds~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	pipe to L1
17. Distance to Nearest Home/Dwelling (ft) 1500'	~~500 yds~~
18. Distance to Nearest Water Course (ft)	½ mile
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1	**View Point Dairy**		
	EL=POND LENGTH	315		**November-11**		
	EW=POND WIDTH	220				
	LL=LIGUID LENGTH	311				
	LW=LIQUID WIDTH	216				
	LD=LIQUID DEPTH	7				
LAGOON/POND CALCULATIONS					283	INSIDE LENGTH
					188	INSIDE WIDTH
	AREA=FT^2 69,300				299	AVERAGE LENGTH
					204	AVERAGE WIDTH
POND #1	FT AVERAGE	60,996				
	CUBIC FT	420,415				
	GALLON CAPACITY	3,144,707				
	ACRE FEET	9.7				

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1			
	EL=POND LENGTH	315				
	EW=POND WIDTH	220				
	LL=LIGUID LENGTH	311				
	LW=LIQUID WIDTH	216				
	LD=LIQUID DEPTH	7				
LAGOON/POND CALCULATIONS					283	INSIDE LENGTH
					188	INSIDE WIDTH
	AREA=FT^2 69,300				299	AVERAGE LENGTH
Pond #2					204	AVERAGE WIDTH
	FT AVERAGE	60,996				
	CUBIC FT	420,415				
	GALLON CAPACITY	3,144,707				
	ACRE FEET	9.7				

DAIRY WASTE	ED= POND DEPTH	8		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1			
	EL=POND LENGTH	315				
	EW=POND WIDTH	220				
	LL=LIGUID LENGTH	311				
	LW=LIQUID WIDTH	216				
	LD=LIQUID DEPTH	7				
Pond #3					283	INSIDE LENGTH
					188	INSIDE WIDTH
	AREA=FT^2 69,300				299	AVERAGE LENGTH
					204	AVERAGE WIDTH
Retention	FT AVERAGE	60,996				
	CUBIC FT	420,415				
	GALLON CAPACITY	3,144,707				
	ACRE FEET	9.7				

DAIRY WASTE	ED= POND DEPTH	10		**AVERAGE AREA**		
	FB=FREEBOARD	1				
	S=SIDE SLOPE	2	:1			
	EL=POND LENGTH	225				
	EW=POND WIDTH	225				
	LL=LIGUID LENGTH	221				
	LW=LIQUID WIDTH	221				
	LD=LIQUID DEPTH	9				
Pond #4					185	INSIDE LENGTH
					185	INSIDE WIDTH
	AREA=FT^2 50,625				205	AVERAGE LENGTH
					205	AVERAGE WIDTH
Settling Basin	FT AVERAGE	42,025				
	CUBIC FT	371,853				
	GALLON CAPACITY	2,781,460				
	ACRE FEET	8.5				

Surface Area	**258,525**	12,215,581	**Gallons**	

* Waiting for calc sheets from SYCD *

A. Site inventory

Date: Thursday April, 9, 2015 Time: 10:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **John Bosma**

AGID: **9908** FARM NAME: **Maple Grove Dairy**

LAGOON ID: 1 Lat: N 46 37093 Long: W120.04947

Phones: Cell:

FARM ADDRESS: 3610 Independence Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Partly cloudy

Temperature: 60°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
	Was the WSP modification designed by a qualified individual?			
1	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
	Description of structural modification:			
3				
	Did the modification meet the NRCS practice standard in place at the time of construction?			
	Describe impact of the modification on structural integrity:			
4				
	Describe impact of the modification on storage depth and storage volume:			
5				

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MS	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?		✓	
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	125'	~~42 yards~~
2. WSP - Inside Top – Average Length (ft)	315'	~~105 yards~~
3. WSP Storage Capacity (cu ft)		
4. Embankment - Inside SS (X:1)		5:1
5. Embankment - Outside SS (Y:1)		5:1
6. Embankment – Top Width (ft)		12'
7. Combined Side Slope (Outside SS + Inside SS)		
8. Embankment – Maximum Fill Height (ft)		
9. Maximum Excavation Depth (ft)		
10. Total Pond Depth (ft)		
11. Liner Type and Thickness (in)	Liner	
12. Inlet Type and Location	Scrape @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)		6:1
14. Distance to Nearest Well / Water Depth in well(ft)	1000'	~~325 yards~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)	1000'	~~325 yards~~
18. Distance to Nearest Water Course (ft)		1/2 mile

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 10:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **John Bosma**

AGID: **9908** FARM NAME: **Maple Grove Dairy**

LAGOON ID: 2 Lat: N46.37093 Long: W120.04885

Phones: Cell:

FARM ADDRESS: 3610 Independence Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 80 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: Dan MS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/13/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Partly cloudy

Temperature: 60°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓	✓	
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		✓	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	300'	~~100 yards~~
2. WSP - Inside Top – Average Length (ft)	280'	~~93 yards~~
3. WSP Storage Capacity (cu ft)		
4. Embankment - Inside SS (X:1)		4:1
5. Embankment - Outside SS (Y:1)		N/A
6. Embankment – Top Width (ft)		20'
7. Combined Side Slope (Outside SS + Inside SS)		
8. Embankment – Maximum Fill Height (ft)		
9. Maximum Excavation Depth (ft)		
10. Total Pond Depth (ft)		
11. Liner Type and Thickness (in)	liner	
12. Inlet Type and Location	pipe @ GPS	
13. WSP Interior-Outlet Ramp Slope (z:1)		N/A
14. Distance to Nearest Well / Water Depth in well(ft)	1000'	~~375 yards~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		Berms
17. Distance to Nearest Home/Dwelling (ft)	1000'	~~325 yards~~
18. Distance to Nearest Water Course (ft)		1/2 mile

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 10:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **John Bosma**

AGID: **9908** FARM NAME: **Maple Grove Dairy**

LAGOON ID: 3 Lat: N46.37099 Long: W120.04745

Phones: Cell:

FARM ADDRESS: 3610 Independence Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 15 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: Dan NMS **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: 4/13/15

Weather: Partly cloudy

Temperature: 57° F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		✓	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM		
WSP STRUCTURE ATTRIBUTES		**NOTES**
1. WSP - Inside Top – Average Width (ft)	145'	~~48 yards~~
2. WSP - Inside Top – Average Length (ft)	340'	~~114 yards~~
3. WSP Storage Capacity (cu ft)		
4. Embankment - Inside SS (X:1)		5:1
5. Embankment - Outside SS (Y:1)		N/A
6. Embankment – Top Width (ft)		20'
7. Combined Side Slope (Outside SS + Inside SS)		
8. Embankment – Maximum Fill Height (ft)		
9. Maximum Excavation Depth (ft)		
10. Total Pond Depth (ft)		
11. Liner Type and Thickness (in)	liner	
12. Inlet Type and Location	Spwy	
13. WSP Interior-Outlet Ramp Slope (z:1)		6:1
14. Distance to Nearest Well / Water Depth in well(ft)	1000'	~~325 yards~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)	1000'	~~325 yards~~
18. Distance to Nearest Water Course (ft)		1/2 mile

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 10:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **John Bosma**

AGID: **9908** FARM NAME: **Maple Grove Dairy**

LAGOON ID: 4 Lat: N46° 37.012 Long: W 120.04845

Phones: Cell:

FARM ADDRESS: 3610 Independence Rd, Outlook, WA

REVIEW INVENTORY DATE: 4/13/15

MANURE/ EFFLUENT LEVEL: 60 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 4 FT.

Completed by: Dan MC **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/15/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Partly Cloudy

Temperature: 57°F

Soil surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		✓	
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES		NOTES
1. WSP - Inside Top – Average Width (ft)	220'	~~74 yards~~
2. WSP - Inside Top – Average Length (ft)	335'	~~111 yards~~
3. WSP Storage Capacity (cu ft)		
4. Embankment - Inside SS (X:1)		4:1
5. Embankment - Outside SS (Y:1)		N/A
6. Embankment – Top Width (ft)		N/A
7. Combined Side Slope (Outside SS + Inside SS)		
8. Embankment – Maximum Fill Height (ft)		
9. Maximum Excavation Depth (ft)		
10. Total Pond Depth (ft)		
11. Liner Type and Thickness (in)	liner	
12. Inlet Type and Location	pipe @	6PS
13. WSP Interior-Outlet Ramp Slope (z:1)		5:1
14. Distance to Nearest Well / Water Depth in well(ft)	300'	~~100 yards~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course		
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.		berms
17. Distance to Nearest Home/Dwelling (ft)	300'	~~100 yards~~
18. Distance to Nearest Water Course (ft)		1/2 mile

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 10:30:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Clifford (Ron) Nilles**

AGID: **9974** FARM NAME: **C & L Dairy (R & L Dairy)**

LAGOON ID: 1 South Lat: N 46.33286 Long: W119. 96574

Phones: Cell:

FARM ADDRESS: 3280 Sheller Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 45°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	~~300~~ 102'
2. WSP - Inside Top – Average Length (ft)	~~50~~ yards 145
3. WSP Storage Capacity (cu ft)	71,820 cu ft
4. Embankment - Inside SS (X:1)	too full
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	10'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	6'
10. Total Pond Depth (ft)	6'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	50 yards
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berm
17. Distance to Nearest Home/Dwelling (ft)	50 yds
18. Distance to Nearest Water Course (ft)	23 yds
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 10:30:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Clifford (Ron) Nilles**

AGID: **9974** FARM NAME: **C & L Dairy (R & L Dairy)**

LAGOON ID: #2 North Lat: N46.33295 Long: W119.96579

Phones: Cell:

FARM ADDRESS: 3280 Sheller Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 45°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation? outside of dike	✓	✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓	✓	
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):	✓	
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.	✓	
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	87'
2. WSP - Inside Top – Average Length (ft)	185'
3. WSP Storage Capacity (cu ft)	67,375 cuft
4. Embankment - Inside SS (X:1)	too full to determine
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	5
10. Total Pond Depth (ft)	5
11. Liner Type and Thickness (in)	Clay
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	50 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	50 yds
18. Distance to Nearest Water Course (ft)	23 yds
WSP – STRUCTURE COMMENTS / NOTES	

POND CALCULATIONS

DAIRY WASTE LAGOON/POND CALCULATIONS					**AVERAGE AREA**	**Sep-12**
	D= STORAGE		6		C & L Dairy	
	S= SIDE SLOPE		2	:1	121	INSIDE LENGTH
	L= LENGTH		145		78	INSIDE WIDTH
	W=WIDTH		102			
	AREA=FT^2	14,790			133	AVERAGE LENGTH
					90	AVERAGE WIDTH
POND #1	FT AVERAGE		11,970			
	CUBIC FT		71,820			
	GALLON CAPACITY		537,214			
	ACRE FEET		1.6		DEPTH IS THE STORAGE DEPTH OF LAGOON	
					LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	D= STORAGE		5		**AVERAGE AREA**	
	S= SIDE SLOPE		2	:1		
Run-Off	L= LENGTH		185		165	INSIDE LENGTH
Catch Basin	W=WIDTH		87		67	INSIDE WIDTH
	AREA=FT^2	16,095			175	AVERAGE LENGTH
					77	AVERAGE WIDTH
	FT AVERAGE		13,475			
	CUBIC FT		67,375		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		503,965		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		1.5			
	D= STORAGE		0		**AVERAGE AREA**	
POND #3	S= SIDE SLOPE		0	:1		
	L= LENGTH		0		0	INSIDE LENGTH
	W=WIDTH		0		0	INSIDE WIDTH
	AREA=FT^2	0			0	AVERAGE LENGTH
					0	AVERAGE WIDTH
	FT AVERAGE		0			
	CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.0			
	D= STORAGE		0		**AVERAGE AREA**	
POND #4	S= SIDE SLOPE		0	:1		
	L= LENGTH		0		0	INSIDE LENGTH
	W=WIDTH		0		0	INSIDE WIDTH
	AREA=	0			0	AVERAGE LENGTH
					0	AVERAGE WIDTH
	FT AVERAGE		0			
	CUBIC FT		0		DEPTH IS THE STORAGE DEPTH OF LAGOON	
	GALLON CAPACITY		0		LENGTH AND WIDTH IS THE OUTSIDE DIMENSIONS	
	ACRE FEET		0.0			

SURFACE AREA =	30,885	1,041,179	GALLONS
TOTAL	30,885		

A. Site inventory

Date: ~~Tuesday April, 7, 2015~~ Time: 10:30:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Frank De Jong**

AGID: **9983** FARM NAME: **Udder View Dairy LLC**

LAGOON ID: 1 Lat: N46.22329 Long: W119.89240

Phones: Cell:

FARM ADDRESS: 31 Robinson Rd, Grandview, WA

REVIEW INVENTORY DATE: 4/14/15

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: Dan Mc **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: 4/14/15

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: Sunny / windy

Temperature: 53°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?			✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft) 180'	~~60 yds~~
2. WSP - Inside Top – Average Length (ft) 180'	~~60 yds~~
3. WSP Storage Capacity (cu ft)	163,872 cu ft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	N/A
6. Embankment – Top Width (ft)	20'
7. Combined Side Slope (Outside SS + Inside SS)	3:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	12'
10. Total Pond Depth (ft)	12'
11. Liner Type and Thickness (in)	Clay
12. Inlet Type and Location	pipe @ 6 PS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft) 250'	~~75 yds~~
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	N/A
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	In ground
17. Distance to Nearest Home/Dwelling (ft) 250'	~~75 yds~~
18. Distance to Nearest Water Course (ft)	1/2 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 2:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jake Slegers Jr**

AGID: **10048** FARM NAME: **JLS Dairy**

LAGOON ID: 1 Lat: N 46.33390 Long: W 119.58017

Phones: Cell:

FARM ADDRESS: 7190 Sheller Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 20 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 47°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		✓	✓
	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
	Damp, soft, or slumping areas?		✓	
	Evidence of seepage on the embankment slope?		✓	
	Evidence of seepage around pipes through berm?		✓	
	Evidence of differential (uneven) settlement?		✓	
	Evidence of seepage at the toe of the embankment?		✓	
	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft)	150'
2. WSP - Inside Top – Average Length (ft)	300'
3. WSP Storage Capacity (cu ft)	275, 213 cu ft
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	6:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	9'
10. Total Pond Depth (ft)	9'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	350 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	350 yards
18. Distance to Nearest Water Course (ft)	300 yards

WSP – STRUCTURE COMMENTS / NOTES

Past history of leaking when liquid reached a certain level

POND CALCULATIONS

DAIRY WASTE	ED= POND DEPTH		9		**AVERAGE AREA**	**June-12**
	FB=FREEBOARD		1			
	S=SIDE SLOPE		2.5	:1	**JLS Dairy**	
	EL=POND LENGTH		300			
	EW=POND WIDTH		150			
	LL=LIGUID LENGTH		295			
	LW=LIQUID WIDTH		145			
	LD=LIQUID DEPTH		8			
LAGOON/POND CALCULATIONS					255	INSIDE LENGTH
					105	INSIDE WIDTH
	AREA=FT^2	45,000			277.5	AVERAGE LENGTH
					127.5	AVERAGE WIDTH
POND #1	FT AVERAGE		35,381			
	CUBIC FT		275,213			
	GALLON CAPACITY		2,058,596			
	ACRE FEET		6.3			

DAIRY WASTE	ED= POND DEPTH		6		**AVERAGE AREA**	
	FB=FREEBOARD		1			
	S=SIDE SLOPE		2	:1		
	EL=POND LENGTH		80			
	EW=POND WIDTH		30			
	LL=LIGUID LENGTH		76			
	LW=LIQUID WIDTH		26			
	LD=LIQUID DEPTH		5			
LAGOON/POND CALCULATIONS					56	INSIDE LENGTH
					6	INSIDE WIDTH
	AREA=FT^2	2,400			68	AVERAGE LENGTH
					18	AVERAGE WIDTH
POND #2	FT AVERAGE		1,224			
	CUBIC FT		5,447			
	GALLON CAPACITY		40,741			
	ACRE FEET		0.1			

DAIRY WASTE	ED= POND DEPTH				**AVERAGE AREA**	
	FB=FREEBOARD		1			
	S=SIDE SLOPE			:1		
	EL=POND LENGTH					
	EW=POND WIDTH					
	LL=LIGUID LENGTH		0			
	LW=LIQUID WIDTH		0			
	LD=LIQUID DEPTH					
LAGOON/POND CALCULATIONS					0	INSIDE LENGTH
					0	INSIDE WIDTH
	AREA=FT^2	0			0	AVERAGE LENGTH
					0	AVERAGE WIDTH
Catch Basin	FT AVERAGE		0			
	CUBIC FT		0			
	GALLON CAPACITY		0			
	ACRE FEET		$ -			

SURFACE AREA =	47,400	2,099,337	GALLONS	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: ROGELIO BRAMBILA ~~Jon Wheeler~~

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: POND #1 Lat: 46.38958 Long: 120.03831

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 45°

surface: (dry), moist, wet, saturated, standing water, frozen, snow covered

OVERFLOW

SITE AND STRUCTURE INVENTORY FORMS (SSIF) SUNNYSIDE

POND #1

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINOR EROSION ON NE BANK BY RAMP.

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft)	322
2. WSP - Inside Top – Average Length (ft)	212
3. WSP Storage Capacity (cu ft)	887,231 (16,636,485)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1
6. Embankment – Top Width (ft)	10'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	12
9. Maximum Excavation Depth (ft)	14
10. Total Pond Depth (ft)	13
11. Liner Type and Thickness (in)	CLAY
12. Inlet Type and Location	VALVED METAL 6" PIPE
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	100' / 600'? VERY DEEP
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/8 TO 1/4 MI
18. Distance to Nearest Water Course (ft) ROCK	IRRIGATION CANAL 3/4 MILE ABOVE POND

OUTLOOK IRR. LAT. 1 MI. SOUTH

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: POND #2 Lat: 46.38990 Long: 120.03518

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 25 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 8 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 45

Soil surface: dry, (moist) wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE POND #2

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	X		
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINOR EROSION NEAR SOUTH A INLET STRUCTURE

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	200
2. WSP - Inside Top – Average Length (ft)	365
3. WSP Storage Capacity (cu ft)	1,258,115 (9,410,698)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1
6. Embankment – Top Width (ft)	8'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	15
9. Maximum Excavation Depth (ft)	17
10. Total Pond Depth (ft)	16
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	~~PVC 10"~~
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MI / 600'?
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CEREALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MI
18. Distance to Nearest Water Course (ft)	ROZA IRR. 3/4 MI ABOVE POND OUTLOOK LATERAL-S OF POND 1 MILE

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: Pond 3 Lat: 46.39024 Long: 120.03440

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 90 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☑ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 46°

Soil surface: dry, (moist,) wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE POND 3

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	X
1	Was the WSP modification designed by a qualified individual?		X	X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

NRCS (SSIF -9/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?	—		
	Damaged liner material (holes, tears, seams)?	—		
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: COULD NOT EVALUATE INTERIOR LINE BECAUSE WSP #3 IS FULL AS PLANNED

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?			
	If applicable; Are perimeter drain(s) plugged or blocked?			
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINOR EROSION AT TOP OF SOUTH EDGE - WATER LINE

WSP FULL - COULD NOT EVALUATE INTERIOR LINER

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 3

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	187
2. WSP - Inside Top – Average Length (ft)	172
3. WSP Storage Capacity (cu ft)	447,781 (3,349,399)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	2:1
6. Embankment – Top Width (ft)	8' TO 14'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	12
9. Maximum Excavation Depth (ft)	14
10. Total Pond Depth (ft)	13
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 10"
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	3/4 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CANALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	3/4 MILE
18. Distance to Nearest Water Course (ft)	1 MILE ROZA IRR TO NORTH 1 MILE OUTLOOL LATERAL IRR SOUTH
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: Pond 4 Lat: 46.39069 Long: 120.03516

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 0 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: SUNNY

Temperature: 47

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE POND 4

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?			
	General erosion of liner material?			
	Damaged liner material (holes, tears, seams)?			
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND IS FULL - CAN NOT EVALUATE LINER

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		—	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND FULL - CANNOT EVALUATE LINER

NRCS

(SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 4

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	187
2. WSP - Inside Top – Average Length (ft)	162
3. WSP Storage Capacity (cu ft)	424,791 (3,177,434)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1 TO LEVEL
6. Embankment – Top Width (ft)	8' TO 20'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	12
9. Maximum Excavation Depth (ft)	14
10. Total Pond Depth (ft)	13
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 10"
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	3/4 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMPS
17. Distance to Nearest Home/Dwelling (ft)	3/4 MI
18. Distance to Nearest Water Course (ft)	1 MILE ROZA IRR. TO NORTH 1 MILE OUTLOOK IRR TO SOUTH
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2** MAIN RECEIVING POND

LAGOON ID: POND 5 Lat: 46.39051 Long: 120.03669

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 100 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 2 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

NRCS (SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE
POND 5 - SB

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?		✓	
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?	—	—	—
	Damaged liner material (holes, tears, seams)?	—	—	—
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: POND IS FULL - COULD NOT EVALUATE LINER

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?		—	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?	X		
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: MINIMAL EROSION ALONG E. & N EDGE OF LAGOON TOP FROM WAVE/WIND - COULD NOT EVALUATE LINER

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE

POND 5 - SB

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	135
2. WSP - Inside Top – Average Length (ft)	305
3. WSP Storage Capacity (cu ft)	446,743 (3,334,158)
4. Embankment - Inside SS (X:1)	2:1
5. Embankment - Outside SS (Y:1)	2:1 TO 3:1
6. Embankment – Top Width (ft)	8' TO 16'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	10
9. Maximum Excavation Depth (ft)	12
10. Total Pond Depth (ft)	11
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC 10"
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE / 600' T
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	POND / CORRALS
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	3/4 MILE
18. Distance to Nearest Water Course (ft)	3/4 MILE ROZA IRR. TO NORTH 1 MILE OUTLOOK LATERAL IRR

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: POND 7 Lat: 46.39095 Long: 120.03651

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 12 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 80

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE POND 7

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*		X	
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
	Evidence of liner slumps, bulges, boils, or whales?		X	
	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
	Damp, soft, or slumping areas?		X	
	Evidence of seepage on the embankment slope?		X	
	Evidence of seepage around pipes through berm?		X	
	Evidence of differential (uneven) settlement?		X	
	Evidence of seepage at the toe of the embankment?		X	
	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 7

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	62.2
2. WSP - Inside Top – Average Length (ft)	671.2
3. WSP Storage Capacity (cu ft)	7164,246 (6,779,596)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	2:1 / 3:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	12.3
9. Maximum Excavation Depth (ft)	14.3
10. Total Pond Depth (ft)	13.3
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	10" PVC TO CEMENT SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	NA
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MI
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	NONE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	3/4 MI
18. Distance to Nearest Water Course (ft)	3/4 MI ROZA NORTH 1 MI OUTLOOK LATERAL TO S.
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: POND 6 Lat: 46.39096 Long: 120.03738

Phones: Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 70 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 1 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 50

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE POND 6

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
	HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*			X
1	Was the WSP modification designed by a qualified individual?			X
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:		JAA	
Signature:		Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		X	
	Evidence of soil erosion or gully on embankment?		X	
	Pond transfer pipe/structure is clear and unobstructed?	X		
	Presence of trees or woody vegetation?		X	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			X
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		X	
	Interior erosion near agitation equipment access points?		X	
	General erosion of liner material?		X	
	Damaged liner material (holes, tears, seams)?		X	
Waste Transfer	All pumps and transfer pipes are functional?	X		
	All recycling pumps and transfer pipes are functional?	X		
Odor	Downwind odor from WSP is strong or unbearable?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		X
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			X
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

NRCS (SSIF -7/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

POND 6

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	211.8
2. WSP - Inside Top – Average Length (ft)	211.8
3. WSP Storage Capacity (cu ft)	873,659 (9,577,814)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1
6. Embankment – Top Width (ft)	20+'
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	14.7
9. Maximum Excavation Depth (ft)	16.7
10. Total Pond Depth (ft)	15.7
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	PVC" CEMENT SPILLWAY
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MI / 600' DEEP?
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	CORRAL
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	3/4 MI
18. Distance to Nearest Water Course (ft)	3/4 MI ROZA IRR TO N. 1 MI OUTLOOK IRR LATERAL TO S.
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Thursday April, 9, 2015 Time: 8:00:00 AM

Inspector: CS

LANDOWNER:

OPERATOR: **Jon Wheeler**

AGID: **10079** FARM NAME: **Sunnyside Dairy #1 and #2**

LAGOON ID: ~~POND 7 # 8~~ Lat: 46.39154 Long: 120.04611

Phones: SMALL DAIRY POND Cell:

FARM ADDRESS: 4581 Maple Grove Rd, Sunnyside, WA

REVIEW INVENTORY DATE: 04.09.15

MANURE/ EFFLUENT LEVEL: 0 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE:

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE:

Weather: SUNNY

Temperature: 80°

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

NRCS (SSIF -10/10)

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SUNNYSIDE
SMALL DAIRY POND #8

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			
WSP Inventory Completed by				
Name:			JAA	
Signature:			Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		X	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.			✓
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?	✓		
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES: SOME EROSION ON SOUTH BANK & NEAR INLET – NOT SIGNIFICANT – BIG BANKS!

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?		X	
Liner	If applicable; Are perimeter drain(s) plugged or blocked?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		X	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		X	
WSP – Interior Surface	Interior erosion due to wave action?		X	
WSP – Interior Surface	Interior erosion from rainfall?		X	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

SMALL DAIRY POND #8

WSP - STRUCTURE ATTRIBUTES FORM

WSP STRUCTURE ATTRIBUTES	NOTES
1. WSP - Inside Top – Average Width (ft)	115
2. WSP - Inside Top – Average Length (ft)	285
3. WSP Storage Capacity (cu ft)	398,007 (2,977,092)
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	3:1 TO LEVEL TO LEVIGATED TOWARDS CORRALS
6. Embankment – Top Width (ft)	20+
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	10
9. Maximum Excavation Depth (ft)	12
10. Total Pond Depth (ft)	11
11. Liner Type and Thickness (in)	CLAY AMENDED SOIL
12. Inlet Type and Location	10" PVC
13. WSP Interior-Outlet Ramp Slope (z:1)	5:1
14. Distance to Nearest Well / Water Depth in well(ft)	1/4 MILE
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	FIELD & TOWARDS MERZ RD. 1/4 MILE
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	PUMP
17. Distance to Nearest Home/Dwelling (ft)	1/4 MILE
18. Distance to Nearest Water Course (ft)	1/2 MI ROZA IRR. DRAINAGE

WSP – STRUCTURE COMMENTS / NOTES

A. Site inventory

Date: Thursday April, 9, 2015 Time: 1:00:00 PM

Inspector: DM

LANDOWNER:

OPERATOR: **Jim Stoutjesdyk**

AGID: **10083** FARM NAME: **Tuxedo Dairy LLC**

LAGOON ID: 1 Lat: N46.37829 Long: W120.21219

Phones: Cell:

FARM ADDRESS: 16041 Yakima Valley Hwy, Zillah, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 50 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 3 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☒ WSP is FULL (Typically late winter or early spring)

DATE: _____

☐ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: _____

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

* This lagoon is no longer used *
Producer building a new lagoon ASAP!

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan MC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *If no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment (Circle One)			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	14 yards
2. WSP - Inside Top – Average Length (ft)	55
3. WSP Storage Capacity (cu ft)	
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	N/A - in-ground
6. Embankment – Top Width (ft)	
7. Combined Side Slope (Outside SS + Inside SS)	
8. Embankment – Maximum Fill Height (ft)	
9. Maximum Excavation Depth (ft)	
10. Total Pond Depth (ft)	
11. Liner Type and Thickness (in)	Clay
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	784 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	N/A - in ground
16. Emptying Feature is provided to protect against accidental release. (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	284 yds
18. Distance to Nearest Water Course (ft)	~~2644~~ over 1 mile
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: Wednesday April, 8, 2015 Time: 8:00:00 AM

Inspector: DM

LANDOWNER:

OPERATOR: **Joe Rollinger**

AGID: **2125** FARM NAME: **J & L Rollinger Farms** #2

LAGOON ID: 1- North Lat: N46.28389 Long: W119.97271

Phones: Cell:

FARM ADDRESS: 840 E Allen Rd, Sunnyside, WA

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 6 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 45°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM				
			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	~~50 yards~~ 160'
2. WSP - Inside Top – Average Length (ft)	~~93 yards~~ 310'
3. WSP Storage Capacity (cu ft)	216,247 cuft
4. Embankment - Inside SS (X:1)	4:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	8:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	6'
10. Total Pond Depth (ft)	6'
11. Liner Type and Thickness (in) clay	
12. Inlet Type and Location pipe @	GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	50 yards
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	50 yards
18. Distance to Nearest Water Course (ft)	50 yards
WSP – STRUCTURE COMMENTS / NOTES	

A. Site inventory

Date: , Time:

Inspector:

LANDOWNER:

OPERATOR:

AGID: FARM NAME: J + L Rollinger #2

LAGOON ID: 2-South Lat: N46.28340 Long: W119.97289

Phones: Cell:

FARM ADDRESS: , ,

REVIEW INVENTORY DATE: _____

MANURE/ EFFLUENT LEVEL: 10 %

TODAY: Liquid Level BELOW Top of Embankment or Spillway Elevation: 10 FT.

Completed by: _____ **Agency DNMP/WSDA**

CHECK REVIEW CONDITION BELOW:

☐ WSP is FULL (Typically late winter or early spring)

DATE: _____

☒ WSP is near empty (Typically late summer or early fall, depending on operation management)

DATE: _____

Weather: Sunny

Temperature: 45°F

Soil surface: dry, moist, wet, saturated, standing water, frozen, snow covered

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE MODIFICATION FORM

			Yes	No
HAS THE WSP BEEN STRUCTURALLY MODIFIED? *(If "Yes" complete 1 through 5 below)*				✓
1	Was the WSP modification designed by a qualified individual?			
	Date design of modification			
	Designer (If applicable)			
2	Date of modification construction			
3	Description of structural modification:			
	Did the modification meet the NRCS practice standard in place at the time of construction?			
4	Describe impact of the modification on structural integrity:			
5	Describe impact of the modification on storage depth and storage volume:			

WSP Inventory Completed by			
Name:	Dan McCarty	JAA	
Signature:	Dan McC	Date:	

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - OPERATION AND MAINTENANCE INVENTORY FORM

If any boxes checked **"NO"**; make notes of location and identify O & M task to improve management in **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Embankment – Crest, Exterior Slope and Toe[1]	Damage from burrowing animals?		✓	
	Evidence of overtopping of embankment?		✓	
	Evidence of soil erosion or gully on embankment?		✓	
	Pond transfer pipe/structure is clear and unobstructed?	✓		
	Presence of trees or woody vegetation?		✓	
	Waste storage pond access is fenced and properly marked? If not required then n/a.		✓	
WSP Interior/Liner	Interior erosion in vicinity of waste inlet structure?		✓	
	Interior erosion near agitation equipment access points?		✓	
	General erosion of liner material?		✓	
	Damaged liner material (holes, tears, seams)?		✓	
Waste Transfer	All pumps and transfer pipes are functional?	✓		
	All recycling pumps and transfer pipes are functional?	✓		
Odor	Downwind odor from WSP is strong or unbearable?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

STRUCTURE and O&M CONDITION CONCERNS	YES	NO
Was any abnormal condition or practice observed that requires corrective action (If yes then answer 1 and 2 below):		✓
1. Minor repair or change in practice would bring the WSP into compliance with accepted practice.		
2. Major repair or change in practice would bring the WSP into compliance with accepted practice.		

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE CONDITION FORM

If any boxes checked **"YES"**; make notes of items for concern, possible extent of damage, identify options to repair, stabilize or address in the **REPORT** section.

	SITE INVENTORY QUESTIONS	YES	NO	NA
Liner	Liner type: None / Compacted Clay / Flexible Membrane / Bentonite Amendment **(Circle One)**			
Liner	Evidence of liner slumps, bulges, boils, or whales?			✓
Liner	If applicable; Are perimeter drain(s) plugged or blocked?			✓
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of cracks in embankment soils?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Damp, soft, or slumping areas?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage on the embankment slope?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage around pipes through berm?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of differential (uneven) settlement?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of seepage at the toe of the embankment?		✓	
Embankment – Crest, Exterior Slope and Toe[1]	Evidence of sand boils on the slope, along the toe or near the toe?		✓	
WSP – Interior Surface	Interior erosion due to wave action?		✓	
WSP – Interior Surface	Interior erosion from rainfall?		✓	

[1] Complete inventory questions appropriate to structure, *if no embankment, as in a pit pond, show NA.*

NOTES:

SITE AND STRUCTURE INVENTORY FORMS (SSIF)

WSP - STRUCTURE ATTRIBUTES FORM	
WSP STRUCTURE ATTRIBUTES	**NOTES**
1. WSP - Inside Top – Average Width (ft)	~~50 yards~~ 160'
2. WSP - Inside Top – Average Length (ft)	~~103 yards~~ 310'
3. WSP Storage Capacity (cu ft)	216,347 cuft
4. Embankment - Inside SS (X:1)	3:1
5. Embankment - Outside SS (Y:1)	4:1
6. Embankment – Top Width (ft)	12'
7. Combined Side Slope (Outside SS + Inside SS)	7:1
8. Embankment – Maximum Fill Height (ft)	—
9. Maximum Excavation Depth (ft)	6'
10. Total Pond Depth (ft)	6'
11. Liner Type and Thickness (in)	clay
12. Inlet Type and Location	Pipe @ GPS
13. WSP Interior-Outlet Ramp Slope (z:1)	N/A
14. Distance to Nearest Well / Water Depth in well(ft)	50 yds
15. Failure Impacts; Farm Building, Homes, Roads, Water Course	
16. Emptying Feature is provided to protect against accidental release (yes/no) If yes please describe in the note section.	berms
17. Distance to Nearest Home/Dwelling (ft)	50 yards
18. Distance to Nearest Water Course (ft)	50 yards
WSP – STRUCTURE COMMENTS / NOTES	

NUTRIENT MANAGEMENT WORKSHEET ver1.5

Date 1/17/2006

South Yakima Conservation District | NRCS Natural Resources Conservation Service

INFO

Producer	Fred Visser
Dairy ID	Vis-Sir Dairy LLC.
Address	1310 Tear Rd.
City	Grandview
State	Washington
Zip	98930
County	Yakima
Mobile	830-1606
Office	
Fax	
Lat	46* 17' 15.057"
Lon	-119* 58' 20.263"
TRS	9,23,8
On-site Acres	115.6
Off-site or Leased Acres	601.94
Type	Confined
Agency	SYCD
Technician	Dave De Boer

HERD ALLOCATION

	AMOUNT	WEIGHT	AUs*
Milkers	900	1,400	1,260
Dry	150	1,400	210
Heifers	50	1,200	60
Calves	210	250	53
		TOTAL AU	**1,583**

* AU = (Number of animals x weight (lbs)) / 1000

LIQUID STORAGE DIMENSIONS (FT.)

Pond ID	ED= Pond Depth	FB= Freeboard	S= SideSlope X : 1	EL= Pond Length	Pond Width	Liquid Length	Liquid Width	Liquid Depth
Pond 1	6	1	2	310	160	306	156	5
Pond 2	6	1	2	310	160	306	156	5
						0	0	0
						0	0	0
						0	0	0
						0	0	0
						0	0	0
						0	0	0
						0	0	0
						0	0	0

LIQUID STORAGE CAPACITIES

	Area Ft2	Cubic Ft.	Capacity gallons	Acre Ft.
Pond 1	49,600	216,247	1,617,525	4.96
Pond 2	49,600	216,247	1,617,525	4.96
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
TOTAL	99,200	432,493	3,235,050	9.93

FACILITY DIMENSIONS (sq ft)

Paved feed area	0
Non-paved feed area	137,500
Paved pen area	0
Non-paved pen area	448,668
Roof area with gutters	0
Roof area w/out gutters	0
Paved "other areas"	0
Non-paved "other areas"	0
Area of storage pond	99,200
TOTAL sq ft	685,368