PRODUCTION AREA FACILITY DESIGN SUMMARY

Animal confinement areas and storage areas for manure, feeds, soil amendments, and other potential sources of contaminants shall be designed, constructed, operated and maintained to retain all waste, wastewater, and stormwater contacting these areas that are likely to accumulate up to and during a 25-year, 24 hour storm event. The following objectives will be achieved:

a) Minimize infiltration of manure into the underlying soils in the production area and to collect and divert all wastewater to the retention pond(s) or other type of containment;

b) Divert all water that has contacted manure or wastewater in corrals and other animal housing areas to a retention pond(s) or other type of containment;

c) Minimize infiltration of leachate and divert clean stormwater runoff away from storage areas for manure, soil amendments, feed and other materials unless all runoff from these areas is collected and retained in the retention pond(s) or other type of containment. Where practicable, these areas should be covered to prevent storm water contact;

d) Divert all precipitation and clean surface drainage outside of manured and waste storage areas away from manured and waste storage areas, including that from roofed areas and tributary drainages, unless such drainage is included in the calculation of retention pond storage volume requirements and is fully contained in a retention pond. Covers shall be used where practical during precipitation to reduce leaching and runoff;

e) Minimize standing water and its infiltration into underlying soils within 72 hours after the last rainfall in all animal confinement areas, and feed and waste storage areas.

Does manure or feed runoff leave the production facility? □Yes □ No

If yes, describe conditions in the production facility that may lead to runoff to surface waters (you may want to identify these locations on your site map)

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Identify practices to implement to minimize runoffs identified above.

DESIGN AND CONSTRCTION DETAILS

A. Corrals and Pens

(1) Is all process wastewater collected in the retention pond? □Yes □ No

If Yes, describe how (circle all that apply):

ditch curbs berm(s) drainpipe sumps pumps other

Explain how your system works:

If No, describe what is done with it:

(2) Is all run on water (clean precipitation and surface drainage) diverted away from the production area? □Yes □ No

If Yes, describe how (circle all that apply):

ditch curbs berm(s) slope elevation other

Explain how your system works:

If No, identify areas where the run on occurs:

If No, identify how the run on is contained:

(3) If run on water has the potential to contact manure and is not contained, explain what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): _____

(4) Are there areas where water contacting manure stands for more than 72 hours? □Yes □ No

If No, explain how standing water is avoided: _____

If Yes, describe what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete.): _____

(5) Are there conveyance structures such as earthen ditches, bermed channels, or swales where manure water stands for more than 72 hours? □Yes □ No

If No, explain how standing water is avoided: _____

If Yes, explain what modifications or improvements are proposed, and provide a schedule for construction. Note: a certification of completion must be provided when complete): _____

B. Animal Housing Area

(1) Is the animal housing area (i.e., barn, shed, milk parlor, paved and unpaved roadways and areas within the production area, etc.) designed, and constructed to drain all water that has contacted animal wastes to the retention pond? □Yes □ No □Partially

If Yes, describe how (circle all that apply)

ditch curbs berm(s) slope elevation drainpipe other

Explain how your system works: _____

If No or Partially, describe the areas not diverted to the retention pond: _____

For the areas not diverted to the retention pond, explain what modifications or improvements are proposed, and a schedule for construction. (Note: a certification of completion must be provided when complete): _____

(2) Are there any areas, outside of the retention system, where water that has contacted manure stands for more than 72 hours? □Yes □ No

If No, describe how your system works to avoid standing water: _____

If Yes, explain what modifications or improvements are proposed, and provide a schedule for construction. A certification of completion must be provided when complete: _____

(3) Are there conveyance structures such as earthen ditches, bermed channels, or swales where water that has contacted manure stands for more than 72 hours, or where parts of the conveyance system are used for storage of manure water? □Yes □ No

If Yes, explain what modifications or improvements are proposed to prevent this condition, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): _____

C. Manure and Feed Storage Area

(1) Is all leachate or water that has contacted stored manure, bedding, or feed collected in the retention pond? □Yes □ No

If Yes, describe how (circle all that apply):

ditch curbs berm(s) drainpipe sumps pumps other

Explain how your system works: _____

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If No, describe where it is collected and what is done with it: _____

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If necessary, explain what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): _____

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(2) Are there any areas where leachate or water contacting stored manure, bedding, or feed stands for more than 72 hours? □Yes □ No

If No, describe how standing leachate and water is prevented or handled: _____

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If Yes, explain what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): _____

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(3) Are there conveyance structures such as earthen ditches, bermed channels, or swales where leachate or water that has contacted stored manure, bedding, or feed stands for more than 72 hours, or are there parts of the system that are used for storage of leachate or manure water? □Yes □ No

If Yes, explain what modifications or improvements are proposed to prevent this condition, and provide a schedule for construction. (Notes: a certification of completion must be provided when complete): _____

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