

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

Initial Permit Application for Dairy Farms

If possible, please submit up-to-date site plans drawn to scale with this application form.

Permit to be issued to:
Location of Dairy:
County:
Assessor's Parcel Number(s):
Please submit a copy of any applicable county approval document for the dairy (i.e. CUP, Site Approval, Site Plan Review, Site Improvement Plan, Dairy Review Letter, etc.) with this application.

Please list the number of cows currently at your dairy in each type of housing:							
	Flushed Freestalls	Scraped Freestalls	Vacuumed Freestalls	Flushed Corrals	Scraped Corrals	Vacuumed Corrals	Other:
Milk Cows							
Dry Cows							
Heifers (15 - 24 months)							
Heifers (7 - 14 months)							
Heifers (3 - 6 months)							
Calves (under 3 months)							
Mature Bulls							
Total Herd:	Breed of Cow:			Total Animal Units:			

Please list the maximum number of cows that can be housed at your dairy in each type of housing based on the current as-built capacity:							
	Flushed Freestalls	Scraped Freestalls	Vacuumed Freestalls	Flushed Corrals	Scraped Corrals	Vacuumed Corrals	Other:
Milk Cows							
Dry Cows							
Heifers (15 - 24 months)							
Heifers (7 - 14 months)							
Heifers (3 - 6 months)							
Calves (under 3 months)							
Mature Bulls							

Has there been any new construction or modifications at your dairy since January 1, 2004? Yes No
 If yes, please list all modifications after January 1, 2004 in the space below. Attach additional sheets if necessary

Cow Housing

Freestalls: N/A

Total number of freestall barns at the dairy: _____

Number of stalls in each freestall: _____

Number of times freestall lanes & walkways are flushed/scraped/vacuumed each day: _____

Open Corrals: N/A

Total number of open corrals at the dairy: _____ Are there shades in the open corrals? Yes No

Number of times corral lanes are flushed/scraped/vacuumed each day: _____

How often is manure removed from the open corrals? _____

Baby Calves (under 3 months): N/A

Are baby calves housed in calf hutches? Yes No

How are the calves housed? Directly on the soil/floor On top of grates

Other Cow Housing Facilities (check all that apply)

Special Needs/Maternity Housing Bulls Other: _____

Milking Center(s) How many milking centers are there at the dairy? _____

Milking Center #1

Type of Milking Center: Parallel Herringbone Rotary Other _____

Number of milking stalls: _____ How many times are the cows milked per day? _____

Frequency milking center flushed? Continuous After Each Milking Other _____

Milking Center #2/Hospital Milking Center N/A

Type of Milking Center: Parallel Herringbone Rotary Other _____

Number of milking stalls: _____ How many times are the cows milked per day? _____

Frequency milking center flushed? Continuous After Each Milking Other _____

Waste Handling (check all that apply)

Anaerobic Treatment Lagoon(s) Aerated Lagoon(s) Anaerobic Digester(s) (Covered lagoon)

Lagoon(s) Storage Pond(s) Settling Basins(s) Weeping walls(s) Mechanical Separator(s)

Composting Manure Stock Piles Land Application Off-site Disposal

Other _____

Liquid Manure Handling	<input type="checkbox"/> Check here if this section does not apply
Number of mechanical separators: <input type="text"/> Are separators equipped with dewatering presses? <input type="checkbox"/> Yes <input type="checkbox"/> No	
What is done with separated solids after removal? <input type="text"/> <input type="text"/>	
How many settling basins/weeping walls are at your farm? <input type="text"/>	
What is the size of each settling basin/weeping wall (Length x Width x Depth)? <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/>	
How many lagoons are on your farm? <input type="text"/>	
What is the size of each lagoon (Length x Width x Depth)? <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/>	
How many storage ponds are on your farm? <input type="text"/>	
What is the size of each storage pond (Length x Width x Depth)? <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/>	
What controls are associated with the lagoon? (Attach relevant information and specifications.)	
<input type="checkbox"/> None <input type="checkbox"/> Aerators <input type="checkbox"/> Covered Lagoon <input type="checkbox"/> Other: <input type="text"/>	
<input type="checkbox"/> Emissions vented to control device (specify e.g., Flare, IC Engine, etc): <input type="text"/>	

Solid Manure Management/Storage	<input type="checkbox"/> Check here if this section does not apply
How is solid manure stored at your farm? <input type="checkbox"/> Open Piles <input type="checkbox"/> Covered (tarped) piles <input type="checkbox"/> Other <input type="text"/>	
Is solid manure applied to your cropland? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, how often? (e.g., twice/year) <input type="text"/>
Is solid manure hauled off-site? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, how often? (e.g., twice/year) <input type="text"/>
What other practices are used to handle solid manure? <input type="text"/> <input type="text"/>	

Composting	<input type="checkbox"/> Check here if this section does not apply
If your farm composts manure, then what type of composting is done?	
<input type="checkbox"/> None <input type="checkbox"/> Windrow <input type="checkbox"/> Aerated Static Pile (ASP) <input type="checkbox"/> Enclosed ASP (e.g., Building, AgBag, Gore Cover, etc)	
<input type="checkbox"/> Other <input type="text"/>	

On-field Activities	<input type="checkbox"/> Check here if this section does not apply
How many acres of cropland that you farm, are contiguous to your dairy? (Include crops separated by roads & avenues) <input type="text"/>	
What methods are used to apply manure to your land? (check all that apply)	
<input type="checkbox"/> Flood Irrigation <input type="checkbox"/> Solid Spreading <input type="checkbox"/> Liquid injection <input type="checkbox"/> Sprinkler Irrigation <input type="checkbox"/> Furrow Irrigation	
<input type="checkbox"/> Other <input type="text"/>	
Is solid manure incorporated immediately after application? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Feed

What methods are used to store feed? (check all that apply)

Feed Storage/Commodity Barns Silage Piles Other

What system(s) are used to feed the cows? (check all that apply)

Mixer Feed Wagon Long Hay Milk Barn Grain Other

Other Equipment

Check here if this section does not apply

Note: If your farm is installing any of the following equipment, please fill out the appropriate supplemental form(s).

Grain Storage Silos Stationary IC Engines Gasoline Tanks Other

Conservation Management Practice (CMP) Plan

Has a CMP been submitted for your dairy pursuant to District Rule 4550? Yes No

If a CMP plan has not yet been submitted, please submit applicable CMP for your dairy and farmland.
For more information on CMP plans, you may visit the District website: www.valleyair.org

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

General Information Dairy Permit Application

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form

Permit to be issued to:

Location of Dairy:

County:

Assessor's Parcel Number(s):

For new and expanding dairies, please submit a copy of any county approval document for the dairy (i.e. Conditional Use Permit, Special Use Permit, Site Approval, Site Plan Review, Site Improvement Plan, Statement of Overriding Consideration, Dairy Review Letter, etc.) with this form.

For new and expanding dairies, please submit a complete process description and facility site plans drawn to scale with property line boundaries clearly marked. The site plans should illustrate all freestall barns, corrals, ponds, lagoons, silage piles/commodity barns, and other cow housing areas. The site plan should also include locations of engines and gasoline tanks, all surrounding cropland owned by the dairy, and on-site residences. Samples of the required site plans are shown on page 3.

Please list the current maximum number of cows in each housing type PRIOR to the modification.

	Flushed Freestalls	Scraped Freestalls	Vacuumed Freestalls	Flushed Corrals	Scraped Corrals	Vacuumed Corrals	Other:
Milk Cows							
Dry Cows							
Heifers (15-24 mon)							
Heifers (7 - 14 mon)							
Heifers (4 - 6 mon)							
Calves (under 3 mon)							
Mature Bulls							
Total Herd:	Breed of Cow:			Total Animal Units:			

Please list the maximum number of cows in each housing type AFTER the modification.

	Flushed Freestalls	Scraped Freestalls	Vacuumed Freestalls	Flushed Corrals	Scraped Corrals	Vacuumed Corrals	Other:
Milk Cows							
Dry Cows							
Heifers (15-24 mon)							
Heifers (7 - 14 mon)							
Heifers (4 - 6 mon)							
Calves (under 3 mon)							
Mature Bulls							
Total Herd:	Breed of Cow:			Total Animal Units:			

Feeding

How frequently is uneaten feed removed from feed lanes in freestalls and corrals? _____

Feed Storage

What methods are used to store feed? (check all that apply)

- Commodity Barns Uncovered Silage Piles Covered Silage Piles
 Other _____

Conservation Management Practices (CMP) – District Rule 4550

Has a CMP Plan been approved or submitted for your dairy and cropland? Yes No

If a CMP Plan has not yet been submitted, please submit the application forms. CMP Plan application forms can be found at the District's ag website: http://www.valleyair.org/General_Info/AGLoader.htm

Confined Animal Facility (CAF) – District Rule 4570

Has a Rule 4570 application been submitted for your dairy? Yes No

If an application has not yet been submitted, please submit the application forms. Rule 4570 application forms can be found at the District's ag website: http://www.valleyair.org/General_Info/AGLoader.htm

California Environmental Quality Act (CEQA) (Please fill out only for new and expanding dairies)

Has any other government agency approved the project (city, county, water board, etc)? Yes No

If yes, please list agencies and date of approval: _____

Has a site-specific environmental document been prepared for the proposed project to satisfy the requirements of CEQA? Yes No

If yes, please attach a copy of the Notice of Determination or the Notice of Exemption.

Please state the type of environmental document prepared for CEQA.

- Negative Declaration Mitigated Negative Declaration Environmental Impact Report (EIR)
 Other: _____ No CEQA Document Prepared

If applicable, please provide the State Clearinghouse (SCH) Number for the environmental document prepared.

State Clearing House (SCH) Number: _____

Has the Lead Agency adopted a statement of overriding considerations for this project? Yes No

If yes, please give the resolution number and date of adoption. Also provide a copy of the statement.

Resolution Number: _____ Date of Adoption: _____

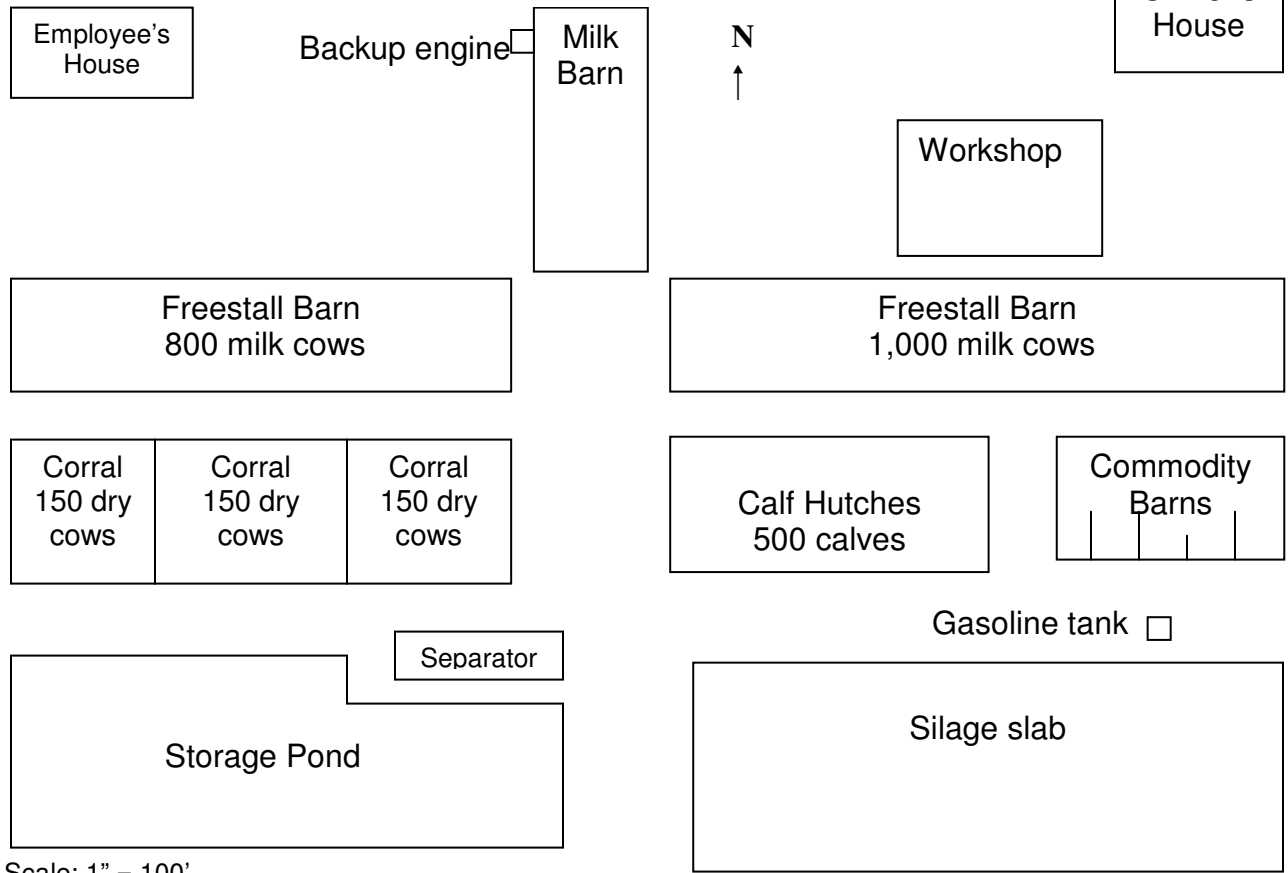
Other Equipment

Check here if this section does not apply

Note: If your farm is installing any of the following equipment, please fill out the appropriate supplemental form(s).

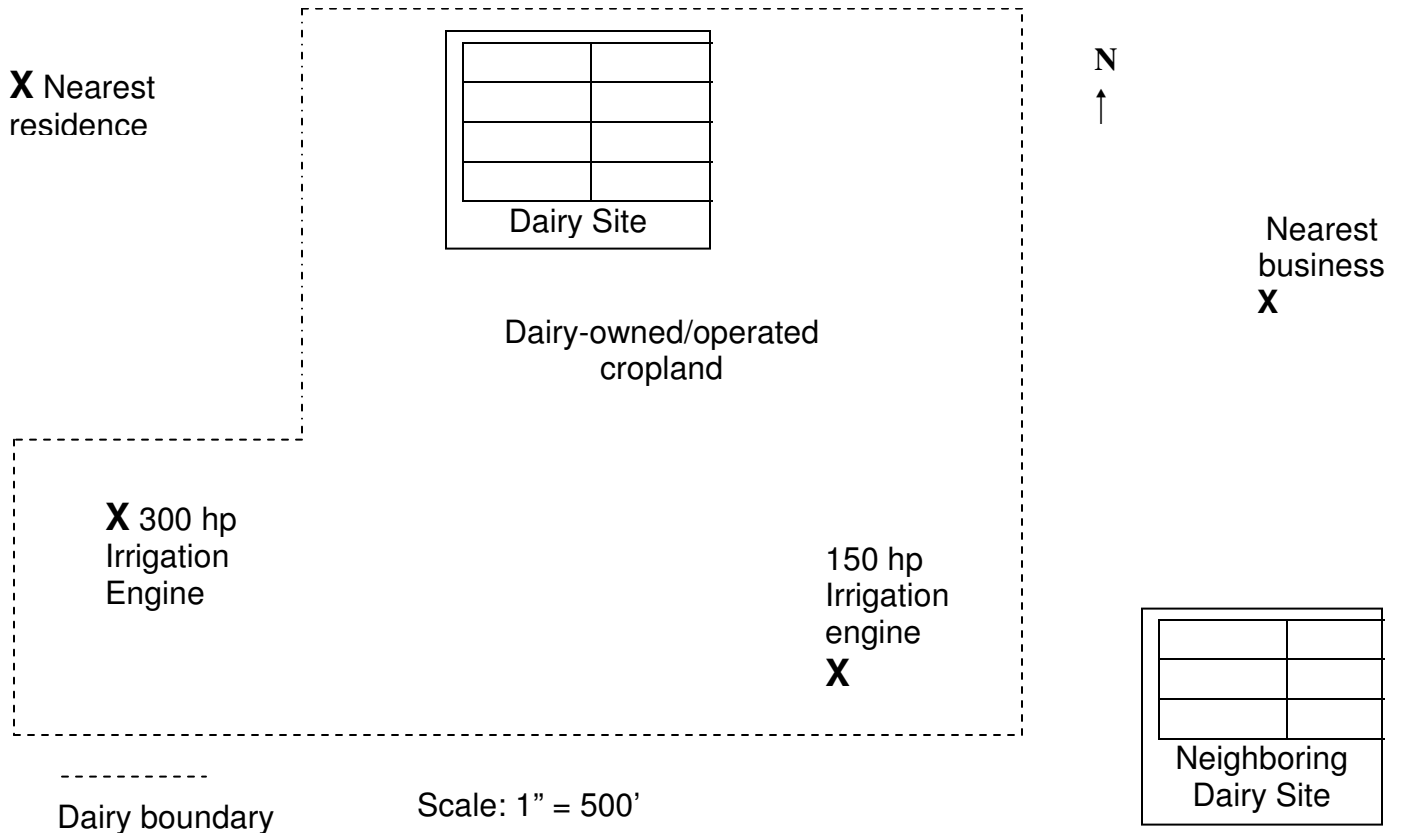
- Grain Storage Silos IC Engines Gasoline Tanks Other _____

Sample A: Detailed Project Site Plan



Scale: 1" = 100'

Sample B: Property Boundary and Vicinity Plan



Scale: 1" = 500'

San Joaquin Valley Air Pollution Control District
Supplemental Application Form

Permit Application for Dairy Farms
Milking Center Modification

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form

Permit to be issued to: _____

Milking Center Prior to Modification N/A

Type of Milking Center: Parallel Herringbone Rotary Other _____

Number of milking stalls: _____ How many times are the cows milked per day? _____

What is the duration of each milking? _____

Dimensions of milking center (Length x Width): _____

Frequency milking center flushed? Continuous After Each Milking Other _____

Milking Center After Modification N/A

Type of Milking Center: Parallel Herringbone Rotary Other _____

Number of milking stalls: _____ How many times are the cows milked per day? _____

What is the duration of each milking? _____

Dimensions of milking center (Length x Width): _____

Frequency milking center flushed? Continuous After Each Milking Other _____

Milking Center #2/Hospital Barn Prior to Modification N/A

Type of Milking Center: Parallel Herringbone Rotary Other _____

Number of milking stalls: _____ How many times are the cows milked per day? _____

Dimensions of milking center (Length x Width): _____

Frequency milking center flushed? Continuous After Each Milking Other _____

Milking Center #2/Hospital Barn After Modification N/A

Type of Milking Center: Parallel Herringbone Rotary Other _____

Number of milking stalls: _____ How many times are the cows milked per day? _____

Dimensions of milking center (Length x Width): _____

Frequency milking center flushed? Continuous After Each Milking Other _____

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

**Permit Application for Dairy Farms
Modification of Cow Housing**

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form

Permit to be issued to:

Cow Housing Prior to Modification

General - Prior to Modification:

Total number of freestall barns at the dairy: _____

If any cows are housed in freestalls, list the type of cow and number of cows housed in each freestall barn:

Barn #1: _____ Barn #2: _____ Barn #3: _____

Barn #4: _____ Barn #5: _____ Barn #6: _____

Barn #7: _____ Barn #8: _____ Barn #9: _____

Barn #10: _____ Barn #11: _____ Barn #12: _____

Minimum slope in corrals and exercise pens of 3% where the available space for each animal is 400 square feet or less and minimum slope of 1.5% where the available space for each animal is more than 400 square feet per animal. (if no please explain) Yes No N/A

*Please provide a facility site map drawn to scale showing all freestall barns, open corrals, and other cow housing areas.

Milk Cows Prior to Modification:

Design	Are the open corrals equipped with shades? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Manure Management	Number of times feed lanes & walkways are flushed each day: _____ <input type="checkbox"/> N/A
	Number of times feed lanes & walkways are scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Dry Cows Prior to Modification:

Design	Are the open corrals equipped with shades? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Manure Management	Number of times feed lanes & walkways are flushed each day: _____ <input type="checkbox"/> N/A
	Number of times feed lanes & walkways are scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Heifers Prior to Modification:

Design	Are the open corrals equipped with shades? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Manure Management	Number of times feed lanes & walkways are flushed each day: _____ <input type="checkbox"/> N/A
	Number of times feed lanes & walkways are scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Baby Calves (under 3 months) Prior to Modification:

Design	<p>Check the type of housing for the calves:</p> <p><input type="checkbox"/> Individual on-ground calf hutches <input type="checkbox"/> Individual above-ground calf hutches</p> <p><input type="checkbox"/> Open Corrals <input type="checkbox"/> Open corrals with shade structures</p> <p>What type of manure management is used? <input type="checkbox"/> Flush <input type="checkbox"/> Scrape <input type="checkbox"/> Other _____</p>
Manure Management	Number of times manure is flushed each day: _____ <input type="checkbox"/> N/A
	Number of times manure is scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Cow Housing After Modification

General - After Modification:

Same as Prior to Mod.

Total number of freestall barns at the dairy: _____

If any cows are housed in freestalls, list the type of cow and number of cows housed in each freestall barn:

Barn #1: _____ Barn #2: _____ Barn #3: _____

Barn #4: _____ Barn #5: _____ Barn #6: _____

Barn #7: _____ Barn #8: _____ Barn #9: _____

Barn #10: _____ Barn #11: _____ Barn #12: _____

Minimum slope in corrals and exercise pens of 3% where the available space for each animal is 400 square feet or less and minimum slope of 1.5% where the available space for each animal is more than 400 square feet per animal. (if no please explain) Yes No N/A

*Please provide a facility site map drawn to scale showing all freestall barns, open corrals, and other cow housing areas.

Milk Cows After Modification:

Same as Prior to Mod.

Design	Are the open corrals equipped with shades? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Manure Management	Number of times feed lanes & walkways are flushed each day: _____ <input type="checkbox"/> N/A
	Number of times feed lanes & walkways are scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Dry Cows After Modification:

Same as Prior to Mod.

Design	Are the open corrals equipped with shades? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Manure Management	Number of times feed lanes & walkways are flushed each day: _____ <input type="checkbox"/> N/A
	Number of times feed lanes & walkways are scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Heifers After Modification:

Same as Prior to Mod. N/A

Design	Are the open corrals equipped with shades? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Manure Management	Number of times feed lanes & walkways are flushed each day: _____ <input type="checkbox"/> N/A
	Number of times feed lanes & walkways are scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Baby Calves (under 3 months) After Modification:

Same as Prior to Mod. N/A

Design	Check the type of housing for the calves: <input type="checkbox"/> Individual on-ground calf hutches <input type="checkbox"/> Individual above-ground calf hutches <input type="checkbox"/> Open Corrals <input type="checkbox"/> Open corrals with shade structures What type of manure management is used? <input type="checkbox"/> Flush <input type="checkbox"/> Scrape <input type="checkbox"/> Other _____
Manure Management	Number of times manure is flushed each day: _____ <input type="checkbox"/> N/A
	Number of times manure is scraped/vacuumed each day: _____ <input type="checkbox"/> N/A

Other Cow Housing Facilities (check all that apply)

Special Needs Maternity Housing Bulls Other: _____

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

**Permit Application for Dairy Farms
Modification to Manure Handling**

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form

Permit to be issued to:

Waste Handling (check all that apply)	<input type="checkbox"/> Anaerobic Treatment Lagoon(s) <input type="checkbox"/> Aerobic Treatment Lagoon(s) <input type="checkbox"/> Anaerobic Digester(s) <input type="checkbox"/> Storage Pond(s) <input type="checkbox"/> Processing Pit(s) <input type="checkbox"/> Composting <input type="checkbox"/> Manure Stock Piles <input type="checkbox"/> Land Application <input type="checkbox"/> Off-site Disposal <input type="checkbox"/> Other _____
Please attach a complete process description of the dairy, including the entire flush process.	

Solids Separation Prior to Modification

Mechanical Separator N/A

Number of mechanical separators: _____ Are separators equipped with a dewatering presses? Yes No

How often is the separated solids pile removed? _____

What is done with separated solids after removal? _____

Settling Basins/Weeping Walls N/A

Number of settling basins/weeping walls: _____

What is the size of each settling basin/weeping wall (L x W x D)? _____, _____

What is the drying time of each settling basin/weeping wall: _____, _____

How often are the settling basins/weeping walls cleaned out: _____, _____

Solids Separation After Modification

Mechanical Separator Same as Prior to Mod. N/A

Number of mechanical separators: _____ Are separators equipped with a dewatering presses? Yes No

How often is the separated solids pile removed? _____

What is done with separated solids after removal? _____

Settling Basins/Weeping Walls Same as Prior to Mod. N/A

Number of settling basins/weeping walls: _____

What is the size of each settling basin/weeping wall (L x W x D)? _____, _____

What is the drying time of each settling basin/weeping wall: _____, _____

How often are the settling basins/weeping walls cleaned out: _____, _____

Processing Pit(s) Prior to Modification	<input type="checkbox"/> N/A
Number of processing pits at the dairy: _____	
Dimensions of each processing pit (L x W x D)? _____, _____, _____	

Processing Pit(s) After Modification	<input type="checkbox"/> Same as Prior to Mod.	<input type="checkbox"/> N/A
Number of processing pits at the dairy: _____		
Dimensions of each processing pit (L x W x D)? _____, _____, _____		

Lagoon(s)/Anaerobic Treatment Lagoon(s) Prior to Modification	<input type="checkbox"/> N/A
*Anaerobic treatment lagoons must be designed in accordance with NRCS specifications, please fill in the information below.	
Number of treatment lagoons: _____	
Amount of fresh water introduced into the milking center each day: _____ (gal or gal/milk cow)	
Dimensions of each lagoon (Length x Width x Depth): _____, _____, _____	
Freeboard depth of each lagoon: _____, _____, _____, _____	
Slope of each lagoon: _____, _____, _____, _____	
What controls are associated with the treatment lagoon? (Attach relevant information and specifications.)	
<input type="checkbox"/> None <input type="checkbox"/> Aerators <input type="checkbox"/> Covered Lagoon <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Emissions vented to control device (specify e.g., Flare, IC Engine, etc): _____	

Lagoon(s)/Anaerobic Treatment Lagoon(s) After Modification	<input type="checkbox"/> Same as Prior to Mod.	<input type="checkbox"/> N/A
*Anaerobic treatment lagoons must be designed in accordance with NRCS specifications, please fill in the information below.		
Number of treatment lagoons: _____		
Amount of fresh water introduced into the milking center each day: _____ (gal or gal/milk cow)		
Dimensions of each lagoon (Length x Width x Depth): _____, _____, _____		
Freeboard depth of each lagoon: _____, _____, _____, _____		
Slope of each lagoon: _____, _____, _____, _____		
What controls are associated with the treatment lagoon? (Attach relevant information and specifications.)		
<input type="checkbox"/> None <input type="checkbox"/> Aerators <input type="checkbox"/> Covered Lagoon <input type="checkbox"/> Other: _____		
<input type="checkbox"/> Emissions vented to control device (specify e.g., Flare, IC Engine, etc): _____		

Storage Pond(s) Prior to Modification	<input type="checkbox"/> N/A
Number of storage ponds: _____	
Dimensions of each storage pond (Length x Width x Depth): _____, _____, _____, _____, _____	

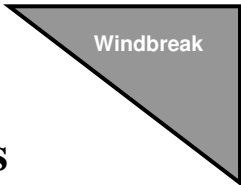
Storage Pond(s) After Modification	<input type="checkbox"/> Same as Prior to Mod.	<input type="checkbox"/> N/A
Number of storage ponds: _____		
Dimensions of each storage pond (Length x Width x Depth): _____, _____, _____, _____, _____		

Solid Manure Management/Storage	<input type="checkbox"/> Check here if this section does not apply
Describe what is done with scraped/vacuumed manure? <input type="checkbox"/> N/A _____	
Are open corrals harrowed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If open corrals are harrowed, how often: _____	
How is solid manure stored at your farm? <input type="checkbox"/> Open Piles <input type="checkbox"/> Covered (tarped) piles <input type="checkbox"/> Other _____	
Is solid manure applied to your cropland? <input type="checkbox"/> Yes <input type="checkbox"/> No	Is solid manure hauled off-site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Where is the manure hauled? _____	
What other practices are used to handle solid manure? _____	

On-field Activities	<input type="checkbox"/> Check here if this section does not apply
How many acres of cropland that you farm, are contiguous to your dairy? (Include crops separated by roads & avenues) _____	
What methods are used to apply manure to your land? (check all that apply)	
<input type="checkbox"/> Flood Irrigation <input type="checkbox"/> Solid Spreading <input type="checkbox"/> Liquid injection <input type="checkbox"/> Sprinkler Irrigation <input type="checkbox"/> Furrow Irrigation <input type="checkbox"/> Other _____	
Is solid manure incorporated immediately (i.e. within one hour) after application? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Composting
If composting is being proposed, which of the following is used?
<input type="checkbox"/> None <input type="checkbox"/> Windrow <input type="checkbox"/> Aerated Static Pile (ASP) <input type="checkbox"/> Enclosed ASP (e.g., Building, AgBag, Gore Cover, etc) <input type="checkbox"/> Negatively Aerated Static Pile <input type="checkbox"/> Enclosed Negatively Aerated Static Pile <input type="checkbox"/> Other _____
<small>*Please attach a detailed process description of your composting operation. Note: Uncontrolled windrow composting may not be allowed for new or modifying operations within the District because of the potential to emit significant emissions.</small>

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**



**Permit Application for New and Expanding Dairies
Windbreak Design**

Windbreaks are multiple rows of trees in linear configurations planted on the windward or downwind side of a given site. The windbreaks must be designed in accordance with the National Research Conservation Service (NRCS) standard #380.

Permit to be issued to:

General Windbreak Guidelines

- Spacing between rows should be sufficient to accommodate cultivation equipment
- Windbreaks should be irrigated to provide the greatest survivability and the most rapid growth of the trees and shrubs.
- Species must be suitable and adapted to the soils, climate, site conditions, and purpose(s) for which the windbreak is established.
- Each row should be planted so that trees are offset from one another.
- Where space permits, the length of the windbreak shall be extended at least 100 feet beyond the area to be protected to reduce eddying effects for upwind windbreaks and for increased filtering for downwind windbreaks. The “area to be protected” is defined as the downwind point of the edge of the corral.
- Weed control in the windbreak must be performed and dead trees or shrubs should be rapidly replaced.
- Shrubs/trees that are initially planted as part of a windbreak shall have a minimum container size of five gallons.

Check here if you agree to fulfill all of the above requirements.

Downwind Windbreak Guidelines

- Downwind windbreaks shall consist of a minimum of three irrigated rows.
- A downwind windbreak must include one row of evergreen shrubs (5+ ft); one row of medium to tall (25+ ft) trees (evergreen or deciduous); and one row of tall (35+ ft) coniferous, evergreen trees. The order of rows should be as follows, with the first row being closest to the dairy/feedlot: first row - shrubs, second row – medium size trees, and third row – tall trees.
- Downwind windbreaks shall be located as close as possible to source of the particulate pollution (cow housing - corrals).
- The following spacing and height requirements must be met:

Row	Type of tree/shrub	Spacing ¹	Height
First Row	Low Shrubs	3 to 5 ft apart	5ft +
	Tall shrubs	8 to 12 ft apart	
Second Row	Medium trees or Tall Trees	8 to 12 ft apart	8-35 ft
Third Row	Large Evergreen Conifer	Varies	35 ft +

¹ These are general spacing requirements and vary depending on type of tree.

Downwind Windbreak Proposal

Please complete the following table:

Row	Type (tree/shrub)	Specie	Spacing (ft)	Max Height (ft)	Windbreak Length (ft)	Location
<i>ex.</i>	<i>Tree</i>	<i>Arizona Cypress</i>	<i>10 ft</i>	<i>35 ft</i>	<i>1,925 ft</i>	<i>NW corner - SW</i>
1						
2						
3						

Upwind Windbreak Guidelines

- Upwind windbreaks shall consist of a minimum of two irrigated rows.
- The upwind windbreak must include one row of evergreen shrubs and one row of tall (35+ ft) trees (evergreen). The order of rows should be as follows: the first row being closest to the dairy/feedlot (tall trees) and second row – shrubs.
- Upwind windbreaks shall be located as close as possible to the source of the particulate pollution (cow housing - corrals). To be effective upwind windbreaks must be located within a distance of 10H of the cow housing, where H is the effective height of the windbreak at maturity.
- The following spacing and height requirements must be met:

Row	Type of tree/shrub	Spacing	Height
First Row	Low Shrubs	3 to 5 ft apart	5ft +
	Tall shrubs	8 to 12 ft apart	
Second Row	Tall Trees	Varies	35+ ft

Upwind Windbreak Proposal

Check here if this section does not apply

Please complete the following table:

Row	Type (tree/shrub)	Specie	Spacing (ft)	Max Height (ft)	Windbreak Length (ft)	Location
<i>ex.</i>	<i>Tree</i>	<i>Arizona Cypress</i>	<i>10 ft</i>	<i>35 ft</i>		<i>NW corner - SW</i>
1						
2						

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

Permit Application for Existing Agricultural Engines > 50 HP

1. ENGINE DESCRIPTION(S)

a) Make	b) Year & Model	c)Horse-power	d) Date of Installation¹	e) Family Number	f) Serial Number	g) Use	h) Fuel	i) Maximum Annual Usage
<i>1. Cummins²</i>	<i>2001/ G855</i>	<i>220</i>	<i>5/24/2002</i>	<i>None</i>	<i>TA078019</i>	<i>Irrigation Well Pump</i>	<i>Natural Gas</i>	<i>4,000 hrs/yr*</i>
<i>2. Caterpillar²</i>	<i>2000/ 3504 DIT</i>	<i>550</i>	<i>6/22/2001</i>	<i>8CEXL0505AE</i>	<i>111276</i>	<i>Emergency</i>	<i>Diesel</i>	<i>100 hrs/yr*</i>

¹ Include proof of installation such as dated purchase receipt, installation work order, maintenance work order, fuel receipt, or insurance records
² The first two rows are presented as examples. See instructions for further information. Attach additional sheets if needed.

**APPLICATION FOR
PERMIT FOR EXISTING IC ENGINES > 50 HP**

-INSTRUCTIONS-

Note: Do not include electrical motors or engines used to power vehicles such as cars, trucks, tractors, forklifts, etc. in completing this application form.

Line 1. The following data and specifications must be provided for each existing engine (operated prior to January 1, 2004) that is required to be permitted:

- a) **Make** – The manufacturer of the engine as provided on the data plate affixed to the engine.
- b) **Year/Model** – The built year and model of the engine, as identified by the manufacturer of the engine, as provided on the data plate affixed to the engine.
- c) **Horsepower** – The horsepower rating of the engine, by the manufacturer of the engine, as provided on the data plate affixed to the engine.
- d) **Date of Installation** – The date the engine was first installed on your farm including proof of installation such as dated purchase receipt, installation work orders, maintenance work orders, fuel receipts, or insurance records.
- e) **Family Number** – If the engine data plate has a Family Number, please list it in this column. If there is no family number write “None”.
- f) **Serial Number** – List the Serial Number off of the data plate on the internal combustion engine. If there is no serial number write “None”.
- g) **Use** – How the engine is used on the farm. Common examples are deep-well irrigation pumps, portable pump engines, or engines powering electrical generators.
- h) **Fuel** – The type of fuel that is combusted in the engine.
- i) **Maximum Annual Usage** – The expected maximum annual usage (in hours) of each engine. This can be obtained from the hour meter or the annual fuel usage of the engine.

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

Permit Application for Existing Gasoline Tanks

That meet one of the following criteria:

- Tanks with a capacity of 550 gallons or less used exclusively for fueling of implements of husbandry, or
- Tanks with a capacity greater 250 gallons and no more than 2,000 gallons installed prior to July 1, 1975.

1. TANK DESCRIPTION(S)

a) Tank Size (Gallons)	b) Liquid Stored	c) Monthly Throughput	d) Annual Throughput	e) Aboveground/Underground
1. 550 gallons*	Gasoline*	250 gallons*	10,000 gallons	Aboveground*
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■

**Note: This first row is presented as an example. See instructions for further information. Attach additional sheets if needed.*

Applicable Requirements and Compliance Certification

2. Applicable Requirements	3. Rule Reference	4. What is your compliance status? (Check one for each requirement)
Tank must be equipped with permanent submerged fill pipe.	Rule 4621, Section 4.1	<input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: _____ / _____ / _____ (see note below)

If you are not in compliance with any of the above requirements, attach an explanation of how you will achieve compliance by your proposed compliance date.

**APPLICATION FOR
PERMIT FOR EXISTING GASOLINE TANKS ≤ 550 GALLONS**

-INSTRUCTIONS-

Note: Do not include gasoline storage tanks that have a capacity of less than 250 gal and tanks that store diesel or LPG/propane in completing this application form.

Line 1. The following data and specifications must be provided for each tank that is required to be permitted:

- a) **Tank Size** – The size of the gasoline storage tank.
- b) **Liquid Stored** – State the type of liquid stored in the tank.
- c) **Monthly Throughput** – How much gasoline is dispensed from the storage tank in an average month.
- d) **Annual Throughput** - How much gasoline is dispensed from the storage tank in a calendar year.
- e) **Aboveground/Underground** – Please state whether the tank is buried underground or mounted aboveground.

Line 2. Applicable Requirements - This is the primary method used to determine the tank is in compliance with the applicable requirement.

Line 3. Rule Reference - Applicable Rule, Regulation, & Section number that the tank must comply with.

Line 4. Compliance Status – Check the “In compliance” box if the engine complies with the applicable requirements. Check “Not in compliance” if the tanks do not comply with the applicable requirements. If you are not in compliance with any of the applicable requirements, attach an explanation of how you will achieve compliance by your proposed compliance date.

San Joaquin Valley Air Pollution Control District Supplemental Application Form

Permit Application for Existing Gasoline Tanks

With a capacity of greater than 550 gallons located at a facility meeting all of the following conditions:

- Total gasoline throughput into motor vehicles registered for use on highways does not exceed 10,000 gallons per any consecutive 30-day period or 24,000 gallons per calendar year
- Tanks were installed after July 1, 1975

1. TANK DESCRIPTION(S)

a) Tank Size (Gallons)	b) Liquid Stored	c) Monthly Throughput	d) Annual Throughput	e) Aboveground/Underground
<i>1. 1,000 gallons*</i>	<i>Gasoline*</i>	<i>600 gallons*</i>	<i>10,000 gallons</i>	<i>Aboveground*</i>
█	█	█	█	█
█	█	█	█	█
█	█	█	█	█

**Note: This first row is presented as an example. See instructions for further information. Attach additional sheets if needed.*

Applicable Requirements and Compliance Certification

2. Applicable Requirements	3. Rule Reference	4. What is your compliance status? (Check one for each requirement)
Maintain total facility throughput into motor vehicle tanks not to exceed 10,000 gallons per any consecutive 30-day period nor 24,000 gallons per calendar year.	Rule 4622, Section 4.0	<input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: █ / █ / █ (see note below)
Records of monthly gasoline throughput shall be maintained, retained on the premises for a period of at least five years and as long as exempt status is claimed. If the gasoline throughput exceeds either 10,000 gallons per any consecutive 30-day period or 24,000 gallons per calendar year, then the facility shall notify the APCD within 30 days.	Rule 4622, Section 6.1.1 & 6.1.2	<input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: █ / █ / █ (see note below)
Each storage tank shall be equipped with an ARB certified Phase I vapor recovery system, which is maintained and operated according to manufacturers specifications.	Rule 4621, Section 5.1.1	<input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: █ / █ / █ (see note below)
Each aboveground storage tank shall be equipped with a pressure-vacuum valve set to eight ounces per square inch unless otherwise specified in the applicable CARB executive order and providing that such setting will not exceed the vessel's maximum pressure rating. Underground tanks shall be equipped with a certified pressure-vacuum relief valve set at 3.0 +/- 0.5 inches water column pressure relief and 8.0 +/- 2.0 inches water column vacuum relief unless otherwise specified in the applicable CARB executive order.	Rule 4621, Section 5.1.2	<input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: █ / █ / █ (see note below)

If you are not in compliance with any of the above requirements, attach an explanation of how you will achieve compliance by your proposed compliance date.

**APPLICATION FOR
PERMIT FOR EXISTING GASOLINE TANKS > 550 GALLONS**

-INSTRUCTIONS-

Note: Do not include gasoline storage tanks that have a capacity of less than 250 gal and tanks that store diesel or LPG/propane in completing this application form.

Line 1. The following data and specifications must be provided for each tank that is required to be permitted:

- a) **Tank Size** – The size of the gasoline storage tank.
- b) **Liquid Stored** – State the type of liquid stored in the tank.
- c) **Monthly Throughput** – How much gasoline is dispensed from the storage tank in an average month.
- d) **Annual Throughput** - How much gasoline is dispensed from the storage tank in a calendar year.
- e) **Aboveground/Underground** – Please state whether the tank is buried underground or mounted aboveground.

Line 2. Applicable Requirements - This is the primary method used to determine the tank is in compliance with the applicable requirement.

Line 3. Rule Reference - Applicable Rule, Regulation, & Section number that the tank must comply with.

Line 4. Compliance Status – Check the “In compliance” box if the tanks comply with the applicable requirements. Check “Not in compliance” if the tanks do not comply with the applicable requirements. If you are not in compliance with any of the applicable requirements, attach an explanation of how you will achieve compliance by your proposed compliance date.

**San Joaquin Valley Air Pollution Control District
Supplemental Application Form**

Permit Application for Existing Miscellaneous Agricultural Equipment

MISCELLANEOUS EQUIPMENT DESCRIPTION(S)

a) Equipment	b) Make	c) Model	d) Size/Rating	e) Fuel/Power	f) Item Stored	g) Estimated Usage
1. <i>Boiler*</i>	<i>Cleaver Brooks*</i>	<i>NCB 700-30*</i>	<i>5.25 MMBtu/hr*</i>	<i>Diesel*</i>	<i>N/A*</i>	<i>2,000 hr/yr*</i>
2. <i>Silo*</i>	<i>N/A*</i>	<i>N/A*</i>	<i>10,000 Gallon*</i>	<i>N/A*</i>	<i>Grain*</i>	<i>500 tons/yr*</i>
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█
█	█	█	█	█	█	█

**Note: The first two rows are presented as examples. See instructions for further information. Add additional sheets if needed*

**APPLICATION FOR
PERMIT FOR EXISTING MISCELLANEOUS AGRICULTURAL EQUIPMENT**

-INSTRUCTIONS-

Lines 1 and 2. These lines are an example of how to provide all information required on the final permit. Equipment that does not require a permit can be found on our website under <http://www.valleyair.org/rules/currnrules/r2020.pdf>. This equipment does not need to be listed in the table. The equipment that will be subject to permits includes but is not limited to the following: a) Natural gas-fired boilers or steam generators with a rating > 5.0 MMBtu/hr (all diesel-fired will be subject to permits), b) Storage silos, c) Metal parts/Wood Coating Operations, d) Incinerators, e) Flares, and f) Organic solvent degreasing operations with an open top surface area > 1.0 square foot, or with a capacity > 2.0 gallons

The following data and specifications must be submitted with each application for permit:

- a) **Equipment** – The piece of equipment that will require a permit.
- b) **Make** – The manufacturer of the piece of equipment.
- c) **Model** – The model of the piece of equipment, as identified by the manufacturer.
- d) **Size/Rating** – The power rating of the piece of equipment, if applicable. This can be stated in brake horsepower, electric motor horsepower, or hourly heat input.
- e) **Fuel/Power** – The fuel that is combusted in the piece of equipment. If electrical powered, state “electricity”.
- f) **Item Stored** – If applicable state what type of material is stored in the piece of equipment.
- g) **Estimated usage** – The typical annual usage of the piece of equipment. This can be stated in hours per calendar year, average hours per month, annual fuel usage in gallons, or annual fuel usage in heat input.

GENERAL FARMING

Applicable Requirements and Compliance Certification

(Farms located in San Joaquin Valley Air Pollution Control District)

Applicable Requirements	Rule Reference	What is your compliance status? (Check one for each requirement)
<p>Except as otherwise provided, no person shall set, permit, or use an open outdoor fire for the purpose of disposal or burning of petroleum wastes; demolition or construction debris; residential rubbish; garbage or vegetation; tires; tar; trees; wood-waste; or other combustible or flammable solid, liquid or gaseous waste; or for metal salvage or burning of motor vehicle bodies.</p> <p>Burning shall be ignited with approved ignition device and shall be conducted during specified hours and shall be monitored and attended as necessary to prevent smoldering and hazard.</p> <p>Obtain necessary permit and authorization prior to burning. Conduct burning in accordance with permit.</p>	Rule 4103, Section 5.1, 5.5, and 6.0	<input type="checkbox"/> No open burning is conducted <input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *
<p>Except for on-field activities, disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities, shall comply with the requirements for fugitive dust control in District Rule 8021, unless specifically exempted under Section 4.0</p>	Rule 8021, Section 5.0	<input type="checkbox"/> No activities subject to this requirement. <input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *
<p>Except for on-field activities,, the facility shall comply with the requirements of Section 5.0, Whenever open areas are disturbed, or vehicles are used in open areas, unless specifically exempted under Section 4.0 of Rule 8011.</p>	Rule 8051, Section 5.0	<input type="checkbox"/> No activities subject to this requirement. <input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *
<p>Except for on-field activities, no person shall undertake any outdoor handling, storage, or transport of bulk materials unless the appropriate requirement of table 8081-1 are sufficiently implemented to limit VDE to 20% opacity or to comply with the conditions for a stabilized surface in Rule 8011, unless specifically exempted under Section 4.0 of Rule 8081</p>	Rule 8081, Section 5.1	<p>Check appropriate method of compliance as it applies to you:</p> <input type="checkbox"/> No activities subject to this requirement. <input type="checkbox"/> Stabilize surface as defined in Rule 8011, OR <input type="checkbox"/> Measures from table 8081-1 to limit VDE to 20% are being utilized <input type="checkbox"/> Not in compliance at this time, but will be by <input type="text"/> / <input type="text"/> / <input type="text"/> *
<p>Except for on-field activities, an owner/operator shall comply with the requirements of Rule 8061 (Paved and Unpaved Roads) regarding the construction standards for shoulder width and medians when constructing new paved roads or modifying existing paved roads, unless specifically exempted under Section 4.0 of Rule 8081</p>	Rule 8081, Section 5.2.1	<input type="checkbox"/> No activities subject to this requirement. <input type="checkbox"/> In compliance and will continue to comply <input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *

<p>Except for on-field activities, on each day that 75 or more vehicle trips will occur on an unpaved road segment, the owner/operator shall limit VDE to 20% opacity from the unpaved road segment by Watering; Uniform layer of washed gravel; Chemical/organic dust suppressants; Vegetative materials; Paving; or Any other method that effectively limits VDE to 20% opacity; unless specifically exempted under Section 4.0 of Rule 8081</p> <p>Except for on-field activities, On each day that 100 or more vehicle trips will occur on an unpaved road segment, the owner/operator shall limit VDE to 20% opacity from the unpaved road segment by Watering; Chemical/organic stabilizers/suppressants in accordance with manufacturer's specifications; Road mix; Paving; or any other method that results in a stabilized unpaved road surface, unless specifically exempted under Section 4.0 of Rule 8081</p> <p>OR operator shall implement an approved Fugitive PM₁₀ Management Plan as specified in Section 7.0 of Rule 8081.</p>	<p>Rule 8081, Section 5.2.2</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> Limit VDE to 20% by implementing measures specified in Sec. 5.2.2 of Rule 8081, OR</p> <p><input type="checkbox"/> Will implement a fugitive PM₁₀ management plan as specified in Sec. 7.0 of Rule 8081.</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *</p>
<p>Except for on-field activities, on each day that 75 or more vehicle trips will occur on an unpaved traffic area, the owner/operator shall limit VDE to 20% opacity from the unpaved traffic area by Watering; Uniform layer of washed gravel; Chemical/organic dust suppressants; Vegetative materials; Paving; or Any other method that effectively limits VDE to 20% opacity;</p> <p>OR shall implement an approved Fugitive PM₁₀ Management Plan as specified in section 7.0 of Rule 808, unless specifically exempted under Section 4.0 of Rule 8081</p>	<p>Rule 8081, Section 5.3.1</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> Will limit VDE to 20% by implementing measures specified in Sec. 5.3.1 of Rule 8081, OR</p> <p><input type="checkbox"/> Will implement a fugitive PM₁₀ management plan as specified in Sec. 7.0</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *</p>
<p>Except for on-field activities, on each day that 100 or more vehicle trips will occur on an unpaved traffic area, the owner/operator shall limit VDE to 20% opacity from the unpaved traffic area by Watering; Chemical/organic stabilizers/suppressants in accordance with manufacturer's specifications; Road mix; Paving; or any other method that results in a stabilized unpaved road surface.</p> <p>OR shall implement an approved Fugitive PM₁₀ Management Plan as specified in section 7.0 of Rule 8081, unless specifically exempted under Section 4.0 of Rule 8081</p>	<p>Rule 8081, Section 5.3.2</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> Will limit VDE to 20% by implementing measures specified in Sec. 5.3.2 of Rule 8081, OR</p> <p><input type="checkbox"/> Will implement a fugitive PM₁₀ management plan as specified in Sec. 7.0 of Rule 8081.</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *</p>
<p>Except for on-field activities, an owner/operator shall restrict access and periodically stabilize a disturbed surface area whenever a site remains inactive for seven consecutive calendar days to comply with the conditions for a stabilized surface area as defined in Rule 8011, unless specifically exempted under Section 4.0 of Rule 8081</p>	<p>Rule 8081, Section 5.3.2</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *</p>
<p>Owner/operator shall maintain records to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. Records shall be kept for one year following project completion that results in the termination of all dust generating activities. An owner/operator shall keep the records for</p>	<p>Rule 8011, Section 6.2</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: <input type="text"/> / <input type="text"/> / <input type="text"/> *</p>

<p>five years.</p> <p>The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary.</p> <p>The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations.</p>	<p>Rule 1100, Section 6.1 and 7.0</p>	<p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: _____ *</p>
<p>The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source.</p>	<p>Rule 1160, Section 5.0</p>	<p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: _____ *</p>
<p>No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District.</p> <p>All VOC-containing materials subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use.</p> <p>The permittee shall comply with Test Methods requirements outlined in Rule 4601 Sections 6.1 and 6.3</p>	<p>Rule 4601, Section 5.1, 5.4, 6.1, and 6.3</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: _____ *</p>
<p>If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F.</p> <p>If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B.</p>	<p>40 CFR Part 82 – Stratospheric Ozone</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: _____ *</p>
<p>Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M]</p>	<p>Rule 4002</p>	<p><input type="checkbox"/> No activities subject to this requirement.</p> <p><input type="checkbox"/> In compliance and will continue to comply</p> <p><input type="checkbox"/> Not in compliance at this time, but will be by: _____ *</p>

*** If you are not in compliance with any of the above requirements, attach an explanation of how you will achieve compliance by your proposed compliance date.**

Dairy Application Definitions

Active Composting:

Compostable material that has undergone the time/temperature Process to Further Reduce Pathogen (PFRP), and is undergoing or capable of undergoing rapid decomposition but isn't sufficiently stabilized as a soil amendment; not horticulturally or agronomically beneficial in its present condition.

Aerated Static Pile:

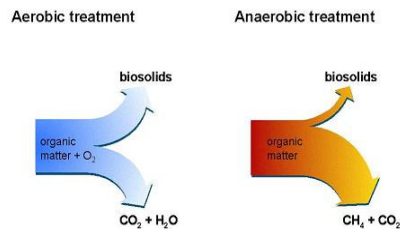
Composting system that uses a series of perforated pipes (or equivalent) with an air distribution system running underneath a compost pile and connected to a blower that either draws or blows air through pipes. Little or no agitation or turning is performed.

Aeration in Compost:

The process by which oxygen-deficient air in compost is replaced by air from the atmosphere to allow microbial aerobic metabolism (biooxidation).

Aerobic Digestion:

Decomposition of organic matter carried out by microbiological organisms (microbes) in the presence of O_2 . During this oxidation process, pollutants are broken down into CO_2 , H_2O , nitrates, sulphates and biomass (sludge). The figure below simplifies the comparison between aerobic and anaerobic digestion:



Source: http://www.biotank.co.uk/anaerobic_digestion.htm

Ammonia:

A gaseous inorganic compound comprised of nitrogen and hydrogen; ammonia, which has a pungent odor, is commonly formed from organic nitrogen compounds during composting.

Anaerobic:

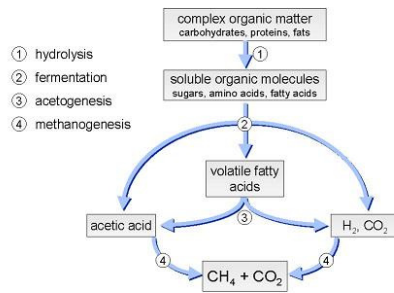
Occurring in the absence of free or dissolved oxygen; capable of living and growing in the absence of oxygen, such as anaerobic bacteria.

Anaerobic digester:

An enclosed basin or tank for anaerobically digesting wastewater. In it, anaerobic bacteria produce biogas, which is typically exhausted continuously and collected for use as a fuel or for a reagent for some industrial chemical reactions. Some types of digesters that can be used for dairy manure are covered lagoons, complete mix, plug flow, thermophilic (operate between 110-160 °F), mesophilic (operate between 68-105 °F) and fixed film.

Anaerobic Digestion:

Decomposition of organic matter by microbes in the absence of oxygen (O_2). During the digestion process, a gas *primarily* composed of methane (CH_4) and carbon dioxide (CO_2), known as biogas, waste gas or digester gas is produced. However, biogas also consists of relatively small amounts Nitrogen (N_2), Oxygen (O_2), Hydrogen Sulfide (H_2S), Ammonia (NH_3) and various Volatile Organic Compounds (VOCs), when compared to the amount of CH_4 and CO_2 produced. Small amounts of sludge are also produced as a result of anaerobic digestion. The following figure summarizes the main stages of biogas production process due to anaerobic digestion:



Source: http://www.biotank.co.uk/anaerobic_digestion.htm

Anaerobic Treatment Lagoon:

A waste treatment lagoon in which livestock or poultry manure is stabilized using anaerobic microorganisms to reduce organic compounds to methane and carbon dioxide.

Anaerobic lagoons should be built as deep as possible, with a small surface area, consistent with construction limitations and groundwater conditions. Anaerobic lagoons have depths from 6 to 30 feet. The depth of the lagoon is not restricted by light penetration as for naturally aerobic lagoons.

Animal Unit (AU):

An Animal Unit (AU) is a unit of measurement used by EPA and USDA to measure the size of animal feeding operations. An AU is equal to approximately one beef cow. Therefore, 1,000 beef cows equal 1,000 AU. There are multipliers for other types of animal feeding operations. For example, 1,000 AUs equal 700 mature dairy cows, 2,500 swine, 10,000 sheep, 55,000 turkeys and between 30,000 and 100,000 laying hens or broilers depending on the animal waste management system.

Biofiltration:

A device for removing contaminants from a gas in which the gas is passed through a media that supports the microbial activity by which the pollutant is degraded.

An established type of biofilter involves a porous medium (typically soil, compost or wood chips - green waste), that contain large populations of microbes. This type of system can be used as an after control assuming captured biogas, like with a digester.

Composting:

The controlled biological degradation of organic solid waste yielding a product for uses as a soil conditioner; a managed process that controls biological decomposition and transformation of biodegradable material into a humus like substance called compost.

Holding / Storage Pond:

A small basin designed for *temporary* collection and storage of organic waste such as animal manure. A holding / storage pond is not a waste treatment lagoon since little bacterial degradation of organic matter takes place since treatment is not considered in the design of a holding pond. Holding ponds are completely emptied when pumped, and the design storage periods are about 90 to 180 days.

Hydraulic Retention Time (HRT):

Volume of the lagoon divided by the daily influent flow as measured in days.

Impermeable:

Not permitting water or another fluid to pass through

In-vessel:

A diverse group of composting technologies in which composting materials are contained in a reactor or vessel.

Mechanically Aerated Lagoon:

A waste treatment lagoon in which the organic material is treated due to mechanical promotion of aerobic decomposition. Complete aerobic digestion is the best way to reduce malodorous air emissions. Aeration can be achieved with floating, submerged or fixed aerators. Aeration can be performed with injection of tiny air bubbles into the lagoon water, mixing of the lagoon water or spraying of the water into the air. For each type of aerator, the O₂ from the air supports natural aerobic bacteria.

Naturally Aerobic Lagoon:

A waste treatment lagoon in which the organic material is treated due to naturally occurring aerobic decomposition. Because oxygen must be absorbed from the air, and sunlight is necessary for the growth of oxygen-producing algae, design aerobic lagoons on the basis of surface area. The depth of a naturally aerated lagoon should be from 3 to 5 feet. Shallow depths are required to allow adequate penetration of sunlight for algae photosynthesis. Aerobic lagoons are normally not practical for animal manure treatment because they would need such a large surface area. A major advantage is that the naturally aerobic lagoon is odor free (as holds true for mechanically aerated lagoons), as long as sufficient oxygen is provided to insure the activity of the aerobic bacteria.

Separated Solids:

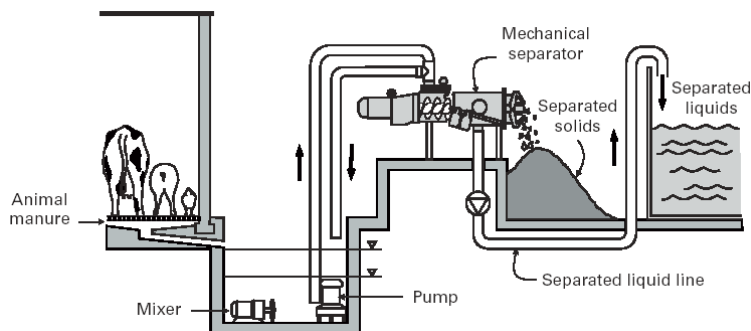
Separated solids are organic and inorganic solids that have been separated from the liquid and slurry manure prior to the treatment lagoon or storage pond. Removal of fresh solids from manure slurries reduces the nutrient content of manure, prolongs the life of storage structures, improves the effectiveness of biological treatment, and minimizes odors. Beneficial uses of the recovered solids include bedding materials, animal feed supplements, composts, and soil amendments.

Solids Separation:

Solids separation is the partial removal of organic and inorganic solids from liquid and slurry manure. Solids separation is primarily performed by sedimentation (solids settle by gravity) and/or by mechanical separation.

Settling basins are structures designed to separate solids from liquid and slurry manure by sedimentation. The inflow of manure is restricted to allow some of the solids to settle out. The liquids gradually drain to a holding pond, treatment lagoon or to some other storage structure. Solids remaining in the basin are left to dry and then are removed.

Mechanical separators include screen separators, centrifuges, hydroclones and presses (screw or belt type). Below is a basic arrangement for a mechanical solids separation system:



Source: http://www.lpes.org/Lessons/Lesson43/43_3_Solid_Liquid_Separation.pdf

VOC (Volatile Organic Compounds):

Any compound containing at least one (1) atom of carbon except for exempt compounds specified Section 3.53 of District Rule 1020.

Waste Treatment Lagoon:

A basin used to store and biologically treat organic waste such as animal manure. Treatment lagoons handle a frequent stream of animal waste and may be generally classified as anaerobic, facultative, or aerobic. A waste treatment lagoon will always have a permanent pool or residual volume that provides a bacterial seedbed to help assure continued digestion after pumping.

Windbreak (Shelterbelt):

A windbreak, or shelterbelt, is composed of one or more rows of trees and/or shrubs, which are planted in a manner that breaks up wind and reduces the force and speed of wind downwind of the windbreak. Windbreaks can be used to prevent soil erosion, improve air quality by intercepting dust, chemicals, and odors, to protect crops, and to provide habitat for wildlife.