

# Valley Air Solutions

Located in the California San Joaquin Valley, serving customers worldwide

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## DAIRY SITE SURVEY

Name of Site: \_\_\_\_\_

Total Herd Size: \_\_\_\_\_ Total Site Acreage: \_\_\_\_\_ County: \_\_\_\_\_

Physical Site Location: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Formal Business Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Cell: \_\_\_\_\_ Email: \_\_\_\_\_

Person Responsible: \_\_\_\_\_ Title: \_\_\_\_\_

### Alternate / Emergency Contact:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Title: \_\_\_\_\_ Fax: \_\_\_\_\_

Address: \_\_\_\_\_ Cell: \_\_\_\_\_

City/State/Zip code: \_\_\_\_\_ Email: \_\_\_\_\_

CURRENT/PROJECTED HERD SIZE and CHARACTERISTICS						
	Milk cows	Dry Cows	Special Needs	Heifers 14-24 months	Heifers 4-14 months	Calves
Initial Herd (heads)						
Max Herd Capacity (heads)						
Avg. Animal Weight (pounds)						
Avg. Daily Manure (pounds)						

<b>CURRENT/PROJECTED ANIMAL DAILY LOCATION</b>						
	<b>Milk cows</b>	<b>Dry Cows</b>	<b>Spec. Needs</b>	<b>Heifers</b> 15-24 months	<b>Heifers</b> 4-14 months	<b>Calves</b>
Free Stall	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Feed Alley	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Open Coral	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Pasture	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Milking Center	Hrs					
Other	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
<b>Total Hours</b>	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs

<b>Manure Collection Method</b>	<b>Collection Frequency</b>				
Free Stall	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month
Feed Alley	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month
Open Coral	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month
Milking Center	<input type="checkbox"/> Flush	<input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day
Other	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month

<b>OTHER WASTE</b>
What other organic waste (non-animal) needs digested or will be available? (Cheese Wastewater, Vegetable, Waste, etc )?
What other inorganic waste will need disposed of? (Plastic, Paper, etc )?

<b>ESTIMATED DAILY WATER USAGE – Method 1</b> (Use either method)				<b>Method 2</b>
	Gallons of <b>Recycled</b> Water per day	Gallons of <b>Fresh Water</b> per day	Flush Frequency	<b>Total Gallons of Dairy Wastewater sent to lagoon(s) daily</b>
Free Stalls				
Feed Alley				
Milking Center				
Other				
<b>Total</b>				

**WATER USAGE MEASUREMENT -**

How will you measure the amount of water or wastewater used on daily basis?

Estimate  Flow Meter  Other

**Free Stalls – What will be used as Bedding?**

Sand  Mechanically Separated Manure  Dry Manure  Composted Manure  Other

**PLANNED WASTE HANDLING & DISPOSITION**

Waste Handling & Disposition (check all planned)	<input type="checkbox"/> NRSC Anaerobic Treatment Lagoon(s)	<input type="checkbox"/> Land Application
	<input type="checkbox"/> Aerobic Treatment Lagoon(s)	<input type="checkbox"/> Manure Stock Piles
	<input type="checkbox"/> Lagoon(s)	<input type="checkbox"/> Storage Pond(s)
	<input type="checkbox"/> Covered Lagoon & Gas Recovery	<input type="checkbox"/> Settling Basin
	<input type="checkbox"/> Methane or Anaerobic Digester	<input type="checkbox"/> Mechanical Separator
	<input type="checkbox"/> Regional/Centralized Digester	<input type="checkbox"/> Off-site Disposal
	<input type="checkbox"/> Processing Pit	<input type="checkbox"/> Other
	<input type="checkbox"/> Composting	

**PLANNED LAGOONS, PONDS & SETTLING BASINS**

How many treatment lagoons are on your site?

What is the size of each treatment lagoon (Length x Width x Depth) in feet? And Side Slope 1:1, 1:2 etc.

Lagoon #1		Lagoon #3	
Lagoon #2		Lagoon #4	

How many storage ponds are on your site?

What is the size of each storage pond (Length x Width x Depth) in feet?

Pond #1		Pond #3	
Pond #2		Pond #4	

How many settling basins are at your site?

What is the size of each settling basin (Length x Width x Depth) in feet?

Basin #1		Basic #3	
Basin #2		Basin #4	

How often is manure water applied to your land (e.g., twice/year)?

Do you use a processing pit or other water recycling/conservation system?

None  Processing Pit  Other

What controls are associated with the lagoon?

None  Aerators  Covered Lagoon  Solids Separation  Other

**ON-FIELD ACTIVITIES**

How many acres of cropland that you farm, are contiguous to your site  
(include crops separated by roads & avenues)?

What method is planned to apply manure to your land?

Flood Irrigation  Solid Spreading  Liquid injection  Sprinkler Irrigation  Furrow Irrigation  
 Other

**PLANNED SOLID MANURE MANAGEMENT / STORAGE**

How will solid manure be stored at your site?  Open Piles  Covered Piles  Other

Will solid manure applied to your cropland? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, how often? (e.g., twice/year) Estimated tons/year?
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Will solid manure hauled off-site? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, how often? (e.g., twice/year) Estimated tons/year?
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Where is the manure hauled off to?

What other practices are planned to handle solid manure (e.g., composting, etc.)?

If your dairy composts manure, then what type of composting is done?  
 None  Windrow  Aerated Static Pile (ASP)  Enclosed ASP (e.g., AgBag, Gore Cover, etc)  
 Negative Aerated Static Pile  Other

**PROJECTED WASTE DISPOSAL COSTS**

What is your annual cost to handle, treat, transport and/or dispose of waste generated on your site?

**PROJECTED ENERGY USAGE INFORMATION**

Energy Source	Projected Total Annual Cost (\$ / yr)	Average Rate (\$ / unit)	Unit
Electricity			<b>kWhr</b>
Propane			<b>gallons</b>
Natural Gas			<b>cubic feet</b>
Other			

**PROPOSED PURPOSE / RATIONALE**

<input type="checkbox"/> Odor Control	<input type="checkbox"/> Reduce Waste	<input type="checkbox"/> Financial	<input type="checkbox"/> Neighbors/Community
<input type="checkbox"/> Generate Electricity	<input type="checkbox"/> Renewable Energy	<input type="checkbox"/> Marketing	<input type="checkbox"/> Reg. Compliance
<input type="checkbox"/> Steam / Hot Water	<input type="checkbox"/> Grant / Subsidy	<input type="checkbox"/> Environmental	<input type="checkbox"/> Other