

activity product or service	aspect	impact	scale of impact	public concern	quantity	legal requirement	cost	Positive impact?	total	Control Measures, Monitoring/measuring points	Comments/Notes
effluent application	over application due to operator error	soil contamination and surface water	3	3	3	3	3		15		
effluent application	pot. Malfunction of reel system	surface water	3	3	3	3	3		15	installed cut off switch	if underground 6 inch piping to hydrants were to leak, wastewater would rise to surface indicating leak
effluent application	over application due to reel system malfunction	pot. Contam to surface water and soil	3	3	3	3	3		15	once per year drains to prevent reel motor from stopping, change oil, spark plugs, grease, air filter change, retighten clamps	
farm infrastructure	mortality - catastrophic	pot. Contam. Of air, surface water	3	3	3	3	3		15		
lagoon	breach	pot. Surface water	3	3	3	3	3		15	use of 3 lagoon system allows flexibility to account of rain or other events, maintain regulated levels	
sludge application	excess sludge accumulation/removal	pot increased odor - air	1	3	3	3	3		13		
farm infrastructure	propane use (abnormal from leaks)	air	2	1	3	3	3		12		
farm infrastructure	diesel fuel storage - abnormal from spill	pot. Soil and air	2	1	3	3	3		12		
effluent application	application - poor weather (windy, rainy)	pot. Surface water contam., pot. Drift onto highway	1	3	2	3	1		10		
feeding	feed consumption	consume renewable	1	1	3	1	3		9		
pit	animal waste	air - ammonia	2	2	1	1	3		9		
pit	animal waste	air - odor	2	3	1	2	1		9		
building cleaning	water use	consumption of gw	2	1	3	1	1		8		
building cleaning	wash water	lagoon loading	2	1	3	1	1		8		
pest management	rodent management program	conserves resources, avoid leaks from lagoons	1	1	1	2	3y		8	includes mowing, poisoning, not allowing trash piles, etc.	
drinking	use well water	consume gw	1	1	3	1	1		7		
drinking	excess water use	lagoon loading	1	1	3	1	1		7		
pit	recycle water use	lagoon loading	1	1	3	1	1		7		
pit	abnormal recycle water	lagoon loading	1	1	3	1	1		7		
building environment	water use in cool cells	consume gw	1	1	1	2	1		6		
farm infrastructure	recycle aluminum cans	conserve resources	1	1	1	2	1y		6		
farm infrastructure	rendering of mortality	conserves resources	1	1	1	2	1y		6		

farm infrastructure	electric motors	consumption of resources	1	1	2	1	1		6	
farm infrastructure	farm refuse	landfill	1	1	1	2	1		6	
health care	use of antibiotics in feed	pot. Impacts to health, water	1	2	1	1	1		6	Avoid use of sulphur drugs, some require veterinary approval prior to ordering,
breeding	insem	sw	1	1	1	1	1		5	
building cleaning	pressure gun use	conserve gw	1	1	1	1	1		5	
building cleaning	use of disinfectant (iodine, tectrol, etc.)	consume resources	1	1	1	1	1		5	
building cleaning	diesel - water heating	consume non-renewable	1	1	1	1	1		5	
building environment	flourescent waste*	sw	1	1	1	1	1		5	
building environment	incandescent waste	sw	1	1	1	1	1		5	
building environment	elect. For lighting	consume resources	1	1	1	1	1		5	
building environment	copper sulphate bath	lagoon loading	1	1	1	1	1		5	
building environment	elect. For ventilation fans	consume resources	1	1	1	1	1		5	
building environment	elect. For heat lamps	consume non-renewable	1	1	1	1	1		5	
drinking	use of elect. For well pump	consume resources	1	1	1	1	1		5	
effluent application	application - reduces commercial fertilizer use	conserves resources	1	1	1	1	1 y		5	
farm infrastructure	peak loading	conserves resources	1	1	1	1	1 y		5	
farm infrastructure	truck delivery	air - dust	1	1	1	1	1		5	
farm infrastructure	mowing and Roundup use	air from diesel and pot. Soil	1	1	1	1	1		5	
farm infrastructure	back-up power -diesel	air	1	1	1	1	1		5	
feeding	reuse of feed	conserve resources	1	1	1	1	1 y		5	
feeding	feeder sys. Elect.	consume resources	1	1	1	1	1		5	
health care	needle disposal	sw	1	1	1	1	1		5	
health care	medicine packaging waste	sw	1	1	1	1	1		5	
lagoon	berm maintenance - diesel tractor	air	1	1	1	1	1		5	
pest management	rodent bait	pot. Soil and wildlife	1	1	1	1	1		5	
building environment	cold weather preparation - preventative									if building empty and cold weather forecasted, building water lines drained

effluent application	normal application									check pump pressure at gun head by gauge reading; have two guns that operate off one pump - check tractor rpm speed for double-check of gauges (2250 rpm is approx. correct speed)	at least once per year, measure travel speed on ground
farm infrastructure	use of tractor -used oil	conserves natural resources								recycle tractor used oil at Ford dealer	