



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

FAX TRANSMITTAL SHEET

DATE: 12-3-91

NAME(S): Mr. Joe Fornier

DEPARTMENT/COMPANY: Cargill Fertilizer

PHONE: 612-475-6414

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FROM: Mr. Buck Owen

DEPARTMENT: FDER/PPS

OFFICE PHONE: 904-488-1344 FAX PHONE: 904-922-6979

SENDER: Mr. Bruce Mitchell

COMMENTS: _____

Have a Good Day!



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November 26, 1991

Gary Boehmer, CFE
Hillsborough County Property Appraiser Office
Room 273-B
Hillsborough County Courthouse
Tampa, Florida 33602

RE: Assessment of Pollution Control Devices
Cargill Fertilizer, 5687.0500

Dear Mr. Boehmer:

I have reviewed the new material submitted in November 1991, by Cargill Fertilizer pursuant to Chapter 17-8, F.A.C. The items discussed appear approvable.

The following items appear eligible for ad valorem tax relief:

1. Wet Rock Mills - Wet rock unloading, storage, grinding, transfer system, water piping, sprayer and pumps.

2. Modifications to 7, 8, 9, sulfuric acid plant. (See attached Nettles letter, page 2.)

Sincerely,

Hamilton S. Owen
Hamilton S. Owen, Jr., P.E.
Administrator
Siting Coordination Office

HSO/ah
Attachment

cc: E.O. Morris

RECEIVED

Ron Alderman, A.S.A., C.F.A.
Property Appraiser
Hillsborough County, Florida

OCT 03 1991



Division of Air
Resources Management

Room 273-B
Hillsborough County Courthouse
Tampa, Florida 33602
Telephone (813) 272-6100

October 1, 1991

Hamilton S. Oven, Jr., P.E.
Administrator, Office of Siting Coordinator
Division of Air Resources Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blaiirstone Road
Tallahassee, Florida 32399-2400

RE: Cargill Fertilizer Pollution Control Devices
Folio Number 5687.0500

Dear Mr. Oven:

On July 29, 1991, I sent you a letter requesting a recommendation from your office regarding the pollution control devices at Cargill Fertilizer. To date, I have not received a response. Our office will be certifying the tax roll shortly and a timely response would be most appreciated by us as well as the taxpayer. I have enclosed copies for your reference.

Sincerely,

Ron Alderman, ASA, CFA
Hillsborough County Property Appraiser

By: 

Gary F. Boehmer, CFE
Chief of Tangible Personal Property

RA/GFB/mb
Enclosures

CARGILL FERTILIZER
POLLUTION CONTROL EQUIPMENT
HILLSBOROUGH COUNTY
FOLIO NUMBER 5687-0500

Description of Equipment	Acquisition Date	Original Cost	Effectuated Media	Environmental Fixtures, Devices, or Machinery used to Remove, decrease, stop or Mitigate Pollution to Air/Water/Land
Coating Oil System at Dock	7/89	92,632	Air	Equipment consisting of storage tank, pumps, and piping necessary for abatement of fugitive dust on product loading at the dock.
Diesel Trash Pump	9/89	12,185	Water	Pump designated for abatement of industrial contaminated stormwater. Collected stormwater is returned to the process water cooling system via the diesel pump.
Environmental Monitoring System Phase 1	7/89	88,112	Water	Surface water contamination abatement. Measuring instruments, automatic gates, and alarm systems for preventing contaminated water from reaching the Alafia River.
Demin Neutralization System	6/89	429,322	Water	Discharge effluent abatement system. Wastewater treatment for water discharged directly to Alafia River.
Acid Tank Vent Collection System	9/89	35,688	Air	Air pollution abatement. System to collect acid mist from process tank and return to the process.
Level Detection System for CAP Tanks	9/89	39,243	Water	Ground water contamination abatement. Level detection and alarm system for prevention of accidental spills of hazardous chemicals to area soils.
Curbed Containment Pad Tanks	11/89	8,063	Water	Surface water contamination abatement. Prevention of process piping leaks and accidental spills from entering surface water hazardous chemicals to area soils.
Level Detection Equipment for Phos. Acid Tanks	8/89	72,056	Water	Ground water contamination abatement. Level detection and systems for prevention of accidental spills of hazardous chemicals to area soils.
Mist Pads - #10 Evaporator	6/89	22,697	Air	Air contamination abatement. Equipment to remove flourine compounds from the recirculation pond system. Lower vapor pressure reduces flourine evolution to atmosphere.
Environmental Modifications to PSF Loading	1/89	55,083	Water	Containment structures and collection system to prevent spills and leakage of phosphoric acid from the loading operation from entering the environment.
42 in. Pipe in Ditch to Outfall System	7/88	154,167	Water	Piping system to isolate runoff to the Alafia River from industrial stormwater runoff. Water pollution abatement.
Demin Effluent Discharge System	11/88	16,903	Water	Surface water pollution abatement. System to eliminate contaminated effluent from the Demin regeneration system from the clean stormwater system.
6 in. Pipe from CAP Retention Pond	10/88	39,976	Water	Surface water pollution abatement. System to return contaminated water from the CP retention pond to the recirculated cooling pond system instead of the outfall to the Alafia River.
Alarm System from #1 and #2 Aging Tank	12/88	15,010	Water	Level detection and alarm system to prevent tank overflow and spill of phosphoric acid to environment.
pH Monitor	1/89	14,518	Water	pH monitor and alarm system for prevention of low pH water from leaving the plant site and entering surface waters.
Mist Eliminator	8/89	5,860	Air	Air pollution abatement through reduction of particulates discharged from stack.
Dust Evacuation System Upgrade	9/89	293,957	Air	Air pollution abatement through reduction of fugitive dust generated at the MAP plants.

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Acid Handling & Containment Pad at Sodium	4/89	58,459	Water	Water pollution elimination through system to control and collect spillage and leakage from process tanks and piping.
Evacuation Ductwork at GTSP	8/87	16,125	Air	Ductwork installed to reduce fugitive emissions.
Cover on Screen Collection Conveyor	8/87	7,026	Air	Cover installed to reduce fugitive emissions.
Install Evacuation Lines at STSP	1/88	13,043	Air	Evacuation lines installed to reduce fugitive emissions.
Garage Ditch Sump to Remove Oil & Grease	2/88	4,781	Water	Oil grease trap to prevent contamination from stormwater runoff.
Coating Oil Tank	6/88	45,684	Air	System installed to reduce fugitive dust.
Fume Evacuation Duct at Dorrco	7/88	32,763	Air	Ductwork installed to reduce fugitive emissions.
Mist Eliminators	7/88	23,313	Air	Equipment installed to reduce particulate emissions.
Revision of NH3 Storage & Handling	9/88	314,257	Air	Provides system to significantly reduce ammonia emissions.
W 30% Tank Cover & Agitator	10/88	77,569	Air	Reduces fluoride emissions.
6" Pipe from #6 Storage Area to Sump	07/88	8,046	Water	Directs contaminated stormwater to process water system.
Catch Basins, Valves & Pipes for Drainage	9/88	13,051	Water	Provides containment for loading stations and prevents contamination of storm water.
Modify Pumps & Piping at W 30% Tank	8/88	19,579	Water	Runs piping over containment areas and prevents leaks from contaminating soils in surrounding area.
Reroute Product Acid Piping	9/88	89,798	Water	Runs piping over containment areas and prevents leaks from contaminating soil.
Reroute Product Acid Piping	10/88	59,750	Water	Runs piping over containment areas and prevents leaks from contaminating soil.
Equipment Evacuation Ductwork	11/88	77,931	Air	Evacuation installed to reduce fugitive emissions.
Wye Strainers on ARCO Scrubbers	11/88	19,558	Air	Prevents shutdown of system which keeps system at steady state and reduces emissions.
Piping at Retention Pond for Treated Water	12/88	9,451	Water	Provides storage of contaminated water which prevents the release of the water to the environment.
Soil Dewatering Equipment	8/88	25,180	Water	Improvement stops erosion which prevents contamination of surrounding environment.
Lincoln Mist System	11/88	12,964	Air	Equipment installed to reduce particulate emissions.
Effluent Pump at #2 Dap Tank	11/88	24,086	Water	Pump returns contaminated industrial contact stormwater to process water system.
Rider Sweeper for Dock Area	11/88	16,445	Air/Water	Removes nutrient laden dust and reduces contamination of stormwater.
Stormwater Overflow Structure	9/88	20,026	Water	Prevents contaminated stormwater from discharging.
Cogeneration Plant: Demin Effluent System	8/88	74,000	Water	Treats contaminated water.

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Cogeneration Plant: #8 Cap Modifications - Effluent & Pollution Control	8/88	1,100,000	Water	Controls the treatment of contaminated water and shuts system down when parameters are not met.
Telescoping Chute & Choke Feeder	10/87	80,000	Air	Machinery equipment with devices to remove dust emissions to air.
New Toe Drain (West of Old Field)	12/87	132,000	Water	An underground fixture designed to stop seepage to groundwater
New Toe Drain (N/W of the 32 Acre (POND))	12/87	19,000	Water	An underground fixture designed to stop seepage to groundwater
Improve Spill Containment Gate	12/87	5,000		
Automation of Neutralization Station	12/87	11,000	Water	New machinery installed to remove nutrients, by chemical means, from waste water before discharge to outfall.
Seepage Drain @ 160 ft level - Old Gypsum Field	12/87	175,000	Water	An underground fixture designed to stop seepage to groundwater
Powerboss Sweeper	7/90	24,700	Air	Street sweeper used to keep fugitive dust levels within the plant road system to minimum.
Fresh Water System - Piping, Proc Equipment	10/89	101,000	Water	Backup water supply system to enable air pollution scrubbers to stay on line should they loose their normal scrubbing medium.
Fresh Water System-Electr/Instr	10/89	90,000	Water	Electrical and associated instrumentation to control backup water supply system, to enable air pollution scrubbers to stay on line should they loose their normal scrubbing medium.
Dual Strainers at Dorro	7/90	85,543	Air	Reduced particulate matter entering the scrubbing media and increased the scrubbing efficiency of the scrubber.
York Mist Pads	2/90	17,500	Air	New mist pads served to reduce acid mists from the facility.
50 HP Vacuum Cleaning System	12/89	53,447	Air	Stationary vacuum system for control and cleanup of dry product spills.
Blower, Central Vacuum System	6/90	6,559	Air	This item is an evacuation system used to control and cleanup dry product spills.
Upgrade Granulators - Evacuation System	6/90	73,784	Air	Evacuation of the GTSP granulator was improved to improve product control.
Wet Rock Mills	6/82	3,846,000	Air	Wet rock mills were installed in place of dry rock mills to stop the particulate emissions associated with dry rock milling.
Fresh Water Recycle System	4/75	1,245,157	Water	32 acre impoundment installed to control/mitigate pollutant discharges.
Modifications to 7,8,9 Sulfuric Acid Plant	76/77	12,059,219	Air/Water	Nos. 4, 5, & 6 sulfuric acid plants were replced with the No. 9 CAP facility. Nos. 7 & 8 sulfuric acid plants were modified to double absorption to reduce sulfur dioxide emissions. The construction charges were financed through an environmental construction bond, issued by Hillsborough county.
Lime Neutralization Station (to include Old Gypsum Field Toe Drain)	12/78	2,069,603	Water	Equipment installed for the removal of pollutants before discharge. The toe drain serves as an underground fixture that stops seepage of process water to groundwater.

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Sulfur Dioxide Emission Analyzers	12/77	107,000	Air	Sulfur dioxide monitors serve to measure emissions from the 3 sulfuric acid plants and shuts down the plants should emissions get too high.
End Product Loading	75/76	65,000	Air	Pollution control devices that serve to remove air pollutants prior to discharge. Equipment includes ducts, fan, bag filter.
Ammoniated Phosphate Plant	12/76	332,000	Air	MiniMAP facility was equipped with 1 venturi, liquid separator a cross-flow tail gas scrubber to remove particulates and fluorides.
Portable Vacuum Dust Pickup	3/75	33,000	Air/Soil	This is a large vacuum cleaner (mounted on skids) that is used to clean up dry product spills, both indoor and externally.
Early Neutralization Station	12/73	249,000	Water	This was equipment installed in conjunction with 004 outfall neutralization purposes.
Dust Collector at Rock Grinding	4/75	20,224	Air	Baghouse installed to remove particulates from the grinding operation.
Wet Scrubber @ 1-4 DAP	12/75	10,693	Air	Cyclones were modified to wet scrubbers to enhance particulate removal efficiencies to air.
Outfall Monitors	1/77	106,851	Water	Continuous pH, flow, and temperature monitors and strip chart recorders automatically monitor discharge parameters and will automatically close the outfall gates to stop surface water pollution.
Dust Collectors at Sodium Silcofluoride	12/76	27,752	Air	Devices installed to remove particulate dust associated with the sodium silcofluoride baghouse.
Misc Pollution Control Devices	74/77	128,194	Air/Water	There is insufficient information to evaluate this category.
NPDES EVAP Cooling Water Recycle System	1/81	1,280,014	Water	248 Acre surface impoundment installed to control pollutant discharges.
Lime Neutralization Station Modifications	1/81	53,764	Water	An additional reactor tank was added to expand the system to 3 stage pH control system. This added control was desired to further reduce P and F levels.
Debottlenecking #7 CAP	7/81	5,478,283	Air/Water	Equipment installed to stop radium discharges and reduce air emissions.
Dimon Plant Pollution Controls	9/81	1,294,767	Air	Air pollution controls installed to reduce air emissions.
Phos Acid Expansion Pollution Controls	6/82	2,259,725	Air/Water	The Dorrco facility was built (with associated scrubber) and the prayon scrubber was modified to increase fluoride scrubbing.
Lime Sludge Line Extension	07/82	25,942	Water	Equipment installed for the purposes of control and transport of liquid waste materials.
Wet Rock Conveyor Modifications	11/82	36,414	Air	Additional modifications were added to stop fugitive dust emissions from the wet rock milling facility.
Modify Rainwater & Process Water System	12/84	99,402	Water	An additional tank was added to increase the neutralization capacity of the overall system. The system allows for the pre-treatment of low pH pondwater prior to discharge.

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Prayon Fume Scrubber Changes	9/83	354,099	Air	Old Prayon scrubber was replaced with new & more efficient packed cross-flow scrubber.
Peripheral Deposit System @ Old Gypsum Field	12/84	258,794	Water	The new equipment allowed for peripheral deposition of gypsum and decreased waste water breakouts through the dikes.
Erosion and Runoff Controls @ Old Gypsum Field	8/85	395,048	Water	Perimeter drains were installed to reduce stormwater runoff to the bay.
Total		36,176,203		