



Virginia DEQ Environmental Excellence Program
Annual Report

Environmental Management System Update
April 2010



EXECUTIVE SUMMARY

Luck Stone Corporation has been a member of the Virginia Environmental Excellence Program (VEEP) since April 21, 2001, and began the work that led to its first Environmental Management System. All of the facilities in the Construction Aggregates division are VEEP members and have set goals to improve areas of primary environmental impact.

Facilities begin the VEEP program at the Environmental Enterprise (E2) level, and start to work on their EMS. In 2009, two of the Luck Stone facilities were promoted to level E3 as Extraordinary Environmental Enterprises. The Powhatan and Spotsylvania plants have established and documented their EMS, have stated and achieved goals for continuous environmental improvement, and have also established comprehensive recycling programs. An additional requirement for the VEEP program is the presence of a community involvement component, and each plant is very active in their respective communities.

The following report documents the accomplishments of the entire corporation with respect to each plant's goals and achievements. The two appendices allow the Powhatan and Spotsylvania plants to emphasize their efforts independently.

Please note the following totals for our enterprise-wide recycling efforts in 2009:

1. Electronics – 2.23 tons recycled
2. Steel – 454 tons recycled
3. Used oil – 111,984 pounds recycled
4. Vehicle batteries – 95 recycled

Additional items have been recycled and we continue to investigate methods of documenting the total weight of paper, cans, bottles, cardboard, tires, oil filters, shop supplies and absorbents. Past years' totals have included brass and manganese, which were not discarded or recycled in 2009.

Each facility has documented achievements for improvements in water quality and improving dust emissions, and focuses on their management of best practices to achieve continuous improvement.

Luck Stone wants to be an integral member of each community in which we operate, and our associates become involved in numerous volunteer projects. Some of this year's highlights include our participation with the Elizabeth River Project and their new Learning Barge, which is a floating classroom that invites students to observe the Elizabeth River and the environmental impact of the activities on its shores. Our partnership with the Newton Marasco Foundation led to the creation of the Chapman DeMary Trail in Purcellville, Virginia. Many of our other facilities were involved with river cleanups, Adopt-a-Highway programs, Habitat for Humanity projects, school tours, and community events. There is no shortage of activities in which our associates want to be engaged.

We invite you to read through this year's report, and we always welcome your comments, feedback, and insight.

VIRGINIA DEQ ENVIRONMENTAL EXCELLENCE PROGRAM
VEEP ANNUAL REPORT: EMS/POLLUTION PREVENTION PLAN RESULTS & UPDATE

GENERAL INFORMATION

FACILITY NAME: Luck Stone Corporation
PRIOR FACILITY NAME:
MEMBERSHIP LEVEL: E2

FACILITY CONTACT

Name: Mark D. Williams
Phone: 804-476-6404
Email: markdwilliams@luckstone.com

FACILITY PERMIT NUMBERS

Hazardous Waste:
Solid Waste:

Water:

VAG840100, VAG840084, VAG840089,
VAG840086, VAG840037, VAG840093,
VAG840099, VAG840038, VAG840094,
VAG840087, VAG840107, VAG840176,
VAG840146, VAG840166, VAG840078,
VAR051858

Air:

40751, 50429, 70008, 30413, 40256,
70274, 70681, 40719, 70143, 50431,
40784, 40151, 50400, 40993, 61548, 61564

Ground Water Withdrawal:

Wetlands (VWP):

03-0267, 01-0515, 06-1985

Toxics Release Inventory:

Facility Registration System (FRS):

Other (local environmental, etc.):

FIFRA:

ENVIRONMENTAL IMPACT REPORTING

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Computers, compact discs, and cellular telephones recycled

Normalizing Basis:

Number of employees

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2006	2007	2008	2009
Actual Quantity	2.43	6.51	8.00	2.23
Normalizing Ratio	1	1.05	1.14	0.77
Normalized Quantity	2.43	6.2	7.018	2.896

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 4000

Additional Cost Savings Information:

Luck Stone must pay the vendor to collect used computer equipment. We have recently established a system where the vendor will pay for the cell phones that we return.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

We have started to recycle the used **Manganese**, which is a major component of our primary rock crushers. Recycling is based on the amount of wear and the schedule for replacement, so results vary from year to year.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

We did not dispose of manganese crusher plates in 2009, so none were recycled.

	Baseline	Year 1	Year 2	Year 3
Year	2006	2007	2008	
Actual Quantity	0	5	612.5	
Normalizing Ratio	1	0.85	0.633	
Normalized Quantity	0	5.882	967.615	

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 0

Additional Cost Savings Information:

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

#1 Heavy Metal, or steel, that we recycled during the current year. This steel is used in all aspects of our operations. We recycle all used steel based upon the rate of replacement.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2005	2007	2008	2009
Actual Quantity	915.7	725	783	454
Normalizing Ratio	1	0.85	0.652	0.43
Normalized Quantity	915.7	852.941	1200.92	1055.814

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 36,935

Additional Cost Savings Information:

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Paper, cardboard, plastic bottles, and aluminum cans recycled from our corporate and Central Service offices. The education of associates has resulted in increased participation, and each desk has a recycling container.

Normalizing Basis:

Number of employees

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2004	2005	2006	2007
Actual Quantity	4.1	10.7	18.04	15.48
Normalizing Ratio	1	1.18	1.22	1.29
Normalized Quantity	4.1	9.068	14.787	12

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$

Additional Cost Savings Information:

Luck Stone added an additional collection container during 2008, but the vendor no longer has the ability to weigh individual loads. We could not determine a total for 2008 or 2009.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Brass recycled from the bearings in the crusher. All brass is recycled, based upon a normal replacement schedule.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2005	2006	2007	2008
Actual Quantity	1.6	3.045	2.79	0.07
Normalizing Ratio	1	1.03	0.85	0.65
Normalized Quantity	1.6	2.956	3.282	0.108

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 0

Additional Cost Savings Information:

We did not dispose of any brass bearings in 2009, so there were none recycled.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Oil filter recycling - total ferrous metals recycled from powered equipment.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

Filters changed based upon the amount of usage, measured by the volume of crushed stone produced.

	Baseline	Year 1	Year 2	Year 3
Year	2004	2005	2006	
Actual Quantity	8.2	9.4	9.8	
Normalizing Ratio	1	1.00	1.02	
Normalized Quantity	8.2	9.4	9.608	

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$

Additional Cost Savings Information:

Luck Stone changed vendors in 2007 to one that collects the used filters in a large bin at each plant. Although the vendor is collecting a large number of used filters, they are not able to provide us with the total weight of filters collected, so we will no longer be tracking this product until a different method can be determined.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Oil recycling - total used oil recycled from powered equipment.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

Oil changed based upon the amount of equipment usage, measured by the volume of crushed stone produced. Gallons multiplied by conversion factor of 7.4 yielding pounds of oil recycled.

	Baseline	Year 1	Year 2	Year 3
Year	2005	2007	2008	2009
Actual Quantity	287408	196248	146883	111984
Normalizing Ratio	1	0.85	0.65	0.43
Normalized Quantity	287408	230880	225973.846	260427.907

Units:

lbs

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 7994

Additional Cost Savings Information:

CATEGORY:

Waste

INDICATOR:

Hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Recycled batteries from mobile vehicles

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2006	2007	2009	
Actual Quantity	170	140	95	
Normalizing Ratio	1	0.83	0.49	
Normalized Quantity	170	168.675	193.878	

Units:

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 712

Additional Cost Savings Information:

The unit listed is the actual number of batteries collected.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

Motor oil recycled during the collection of used oil filters

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

Filters changed based upon the amount of usage, measured by the volume of crushed stone produced.

	Baseline	Year 1	Year 2	Year 3
Year	2005	2006		
Actual Quantity	5.5	5.8		
Normalizing Ratio	1	1.03		
Normalized Quantity	5.5	5.631		

Units:

tons

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$

Additional Cost Savings Information:

Luck Stone changed vendors in 2007 to one that collects the used filters in a large bin at each plant. Although the vendor is collecting a large number of used filters, they are not able to provide us with the total amount of oil in the filters collected, so we will no longer be tracking this product until a different method can be determined.

EMS & ENVIRONMENTAL PERFORMANCE UPDATE

EMS Development Progress: Fifteen of our Construction Aggregate operations are in the E2 program. Many of our sites are now actively engaged in their EMS and are concentrating on the completion of their necessary training and paperwork. Two of our locations have become E3 certified in the past year and will be submitting their own reports. To further this objective, almost all plants are now served by an associate assigned specifically to deal with safety, environmental, and community issues.

Listed below are 2 environmental objectives, and the individual goals that each plant set to achieve the objectives, for several of our locations that are working towards E3 status. We will discuss the other two goals, recycling and community outreach, in other parts of this update.

1. Reduce Dust Emissions:

Burkeville- A. Created a regular inspection and maintenance process for dust suppression system in conjunction with system training of associates. B. Increased replacement of nozzles.

Boscobel- A. Added new nozzles to two conveyors to reduce dust at tertiary. B. Added new nozzles to conveyor at the dust storage pile.

Caroline - A. Began tracking and documenting truck efficiency to reduce travel and idling times - trucks were at 140% of efficiency goal.

Charlottesville - A. Applied new seals and caulking on the ISC crusher, and developed methods to bypass the crusher to reduce its usage. B. Added new nozzles on conveyor P1 and on the stacker to reduce dust at the primary surge pile.

Greene - A. Repaired and replaced Nesco nozzles on secondary crusher. B. Installed and utilized water cannons on crusher run pile to reduce dust.

Rockville- A. Installed an additional spray bar on conveyor 33 to increase efficiency of dust suppression. B. Began to log the trips taken by the water truck to document the amount of recycled process water used for dust suppression. The facility used 6,056,000 gallons in 2009, and shared 456,000 gallons with the adjacent landfill, as well as 36,000 with other contractors.

South Richmond - A. Installed a new dust suppression system and dust curtain at the primary crusher.

2. Improve Discharge Water Quality:

Burkeville- A. Performed regular maintenance on outfall structures. B. Increased training and education around water quality and monitoring.

Boscobel - A. Added new check dams in the overburden diversion ditches. B. Replaced stone in the sediment basins to reduce sediment discharge.

Caroline- A. Modified the mine plan to eliminate the need for an additional outfall, which resulted in less discharge and less impact to the ground surface.

Charlottesville - A. Installed check dams and filters to reduce sediment from related user site. B. Diverted stormwater from the secondary and tertiary to a basin prior to the sump to reduce solids. C. Constructed a truck bed wash down stand to direct washwater to sump.

Greene - Reworked slope and seeded berm and top soil site. B. Initiated project on new sediment basin beyond western boundary to improve stormwater runoff.

Rockville- A. Reconstructed the diversion ditch on the north end to facilitate maintenance and to reduce erosion during discharge events. Cleaned basins and traps associated with the outfall. B. Increased training and education around water quality and monitoring.

South Richmond - A. Improved drainage to sediment basins from the fill area. B. Improved drainage from the storage area to the existing pond.

Comments Related to Compliance Issues:

There were no NOV's issued to Luck Stone facilities in 2009. The Culpeper facility received a warning letter in September, 2009, because the sample discharge from outfall 004 was not analyzed for total petroleum hydrocarbons. Facility personnel reviewed permit requirements, and followup samples were collected to ensure compliance.

ADDITIONAL INFORMATION

Awards and Recognition:

1. Luck Stone Corporation was a major sponsor of the nationally-recognized Elizabeth River Project's Learning Barge, a floating classroom barge completely powered by renewable resources. The barge is used to facilitate classroom learning about the river and the effects of pollution. A portion of the barge demonstrates the value of wetlands and how they help to clean the river through nutrient and sediment retention, and Luck Stone donated the biofilter material that helps to make this a compelling exhibit.

2. Luck Stone also donated a significant amount of product to the restoration of Money Point on the South Branch Elizabeth River, earning recognition from the City of Chesapeake and other agencies.

3. Luck Stone was a sponsor of the annual meeting of the James River Association and presented an award to the winner of its annual video contest, "The James and Me." Luck Stone VP Billy Chenault presented an award to the winner of the professional division, Ms. Ramona Taylor.

Outreach to the Public:

Plants had many outreach activities in 2009, including:

1. Mine safety presentations at local schools
2. Donations of crushed rock products to local organization
3. Monetary donations to numerous local groups
4. Participate in many Adopt-a-Highway programs throughout the state
5. Provide school tours associated with science classes and state mining department
6. Provide picnic and recreation opportunities for teachers and school personnel
7. Celebrate trucker appreciation days at quarry sites
8. Participate in local food drives and Christmas Mother donations
9. Sponsor a site for the James River Cleanup
10. Sponsor a booth for the Fredericksburg/Stafford Earth Day celebration
11. Annually sponsor a booth for Environment Virginia
12. Hosted Kemps Landing Magnet School (VA Beach) for a quarry tour at Greene
13. Hosted community meetings and informational events at many company facilities
14. Sponsored a public trail near Loudoun Valley High School in cooperation with the Newton Marasco Foundation
15. Hosted a workshop for the DEQ Northern Region office at our Massaponax plant to familiarize staff with water permit issues and quarry operations

Best Practices:

Noise suppression;
Dust suppression;
avoidance of wetlands and streams;
berms and open-space buffer areas that assist noise suppression and improve visual aesthetics;
wash racks and road sweeping and washing;
recycle process water to reuse;
recycling to reduce waste disposal;
timber replanting;
restoration and reclamation of impacted sites;
created a rain garden at Gilmerton to reduce stormwater runoff

Others:

1. Luck Stone coordinates with Dominion Power to shut down plants during peak volume days and delays some operations to off-peak hours.
2. Luck Stone operates the New Kent Wetlands Mitigation Bank to compensate for unavoidable impacts to wetlands and waters of the United States in the York River watershed; credits are used by Luck Stone and are also purchased by third-party permittees.
3. Luck Stone collaborates with many environmentally-conscious organizations that share ideas in regard to reducing impacts, sustainability, green building, and stewardship. These include the James River Green Building Council, the Virginia Stream Alliance, the Virginia EMS Association, the Loudoun Environmental Stewardship Alliance, the James River Association, and many other organizations.
4. The corporate office has taken on many activities to reduce its footprint, including recycling all computer supplies and fluorescents. Associates are encouraged to bring their supplies in from home also.

APPENDIX 1

Annual E3 report for the Powhatan plant

VIRGINIA DEQ ENVIRONMENTAL EXCELLENCE PROGRAM
VEEP ANNUAL REPORT: EMS/POLLUTION PREVENTION PLAN RESULTS & UPDATE

GENERAL INFORMATION

FACILITY NAME: Powhatan Plant - Luck Stone Corporation
PRIOR FACILITY NAME:
MEMBERSHIP LEVEL: E3

FACILITY CONTACT

Name: Mark D. Williams
Phone: 804-476-6404
Email: markdwilliams@luckstone.com

FACILITY PERMIT NUMBERS

Hazardous Waste:
Solid Waste:
Water: VAG840085
Air: 50946
Ground Water Withdrawal:
Wetlands (VWP):
Toxics Release Inventory:
Facility Registration System (FRS):
Other (local environmental, etc.):
FIFRA:

ENVIRONMENTAL IMPACT REPORTING

CATEGORY: Waste
 INDICATOR: Non-hazardous Waste Recycled
 Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?): In 2009, the Powhatan plant began to document the amount of **recycled paper, plastic, aluminum, and steel** that was collected at the facility.
 Normalizing Basis: Number of production hours
 Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2009			
Actual Quantity	20000			
Normalizing Ratio	1			
Normalized Quantity	20000			

Units: lbs
 Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts): \$ 457.32
 Additional Cost Savings Information: The vendor who picks up the steel for recycling pays Luck Stone the current market value for the steel, and Luck Stone does not have to pay for its disposal.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

The Powhatan plant purchased a **used oil** heater for its shop so that the purchase of kerosene could be eliminated. An extra storage tank was placed in service so that oil from the summer maintenance could be stored until needed.

Normalizing Basis:

Number of production hours

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2009			
Actual Quantity	11100			
Normalizing Ratio	1			
Normalized Quantity	11100			

Units:

lbs

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 3885

Additional Cost Savings Information:

By heating the shop with used motor oil, the plant saves money by reducing its purchases of kerosene and by not having to transport the used oil to an offsite location.

EMS & ENVIRONMENTAL PERFORMANCE UPDATE

EMS Development Progress: The Powhatan plant has identified its significant targets as reducing dust emissions and improving water discharge quality. To meet those objectives, during 2009 the plant performed the following specific tasks:

Air quality improvements - To control dust at the scale, a sprayer was added to keep the roadway wet and the water truck increased its number of operations. To control dust at the crushers, a nozzle was added to the spray bar and nozzles were reconfigured near the discharge of the secondary, and additional nozzles were located at the primary.

Water quality improvements - The sediment basin that controls most erosion and sediment activities at the site was reconfigured to allow better access for maintenance. The trap was cleaned and the riser was raised, allowing additional retention time.

Comments Related to Compliance Issues: The Powhatan plant did not have any violations, warnings, or other environmental violations during 2009.

ADDITIONAL INFORMATION

Awards and Recognition: The Powhatan facility was recognized for its promotion to the E3 level of the Virginia Environmental Excellence Program in 2009.

Outreach to the Public:

1. The Powhatan plant conducts quarterly community meetings that are open to anyone who would like information about the facility.
2. Community clean up activities include an Adopt-a-Highway program along Old Church Road, maintaining a cemetery near the property boundary, and donating stone to the Powhatan Ruritans, Habitat for Humanity, and other organizations.
3. Coordination with local schools includes activities such as the Job Shadowing program with Powhatan High School, where a student spends the day working with a plant associate on the job, working with 3rd graders on a reading project, allowing the cross-country team to practice on some of the property, as well as donations to a school wrestling team and a local football team.

Best Practices:

- Noise suppression;
- dust suppression;
- avoidance of streams and wetlands;
- berms and open-space buffer areas that assist noise suppression, wildlife habitat, and improve visual aesthetics;
- wash racks and road sweeping and washing;
- recycle process water to reuse in the plant;
- recycling to reduce waste disposal;
- timber replanting;
- restoration and reclamation of impacted sites

APPENDIX 2

Annual E3 report for the Spotsylvania plant

VIRGINIA DEQ ENVIRONMENTAL EXCELLENCE PROGRAM

VEEP ANNUAL REPORT: EMS/POLLUTION PREVENTION PLAN RESULTS & UPDATE

GENERAL INFORMATION

FACILITY NAME: Spotsylvania Plant - Luck Stone Corporation
PRIOR FACILITY NAME:
MEMBERSHIP LEVEL: E3

FACILITY CONTACT

Name: Mark D. Williams
Phone: 804-476-6404
Email: markdwilliams@luckstone.com

FACILITY PERMIT NUMBERS

Hazardous Waste:
Solid Waste:
Water: VAG840104
Air: 40383
Ground Water Withdrawal:
Wetlands (VWP): 03-0267
Toxics Release Inventory:
Facility Registration System (FRS):
Other (local environmental, etc.):
FIFRA:

ENVIRONMENTAL IMPACT REPORTING

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

The Spotsylvania plant recycles the **used motor oil** that is collected from the mobile equipment during routine maintenance. The used oil is transferred to a burner that heats the maintenance shop during the winter, thereby reducing the amount of electricity or kerosene that would need to be purchased to heat the shop.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2009			
Actual Quantity	1924			
Normalizing Ratio	1			
Normalized Quantity	1924			

Units:

lbs

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 673.40

Additional Cost Savings Information:

Cost savings was realized by not having to purchase kerosene to heat the shop, and not having to transport the used motor oil to an off-site location.

CATEGORY:

Waste

INDICATOR:

Non-hazardous Waste Recycled

Additional Information on Environmental Results (e.g., how did you achieve the reductions? if there were increases, what was the reason?):

The Spotsylvania facility is collecting **paper, plastic, glass, and cardboard** in a separate dumpster for recycling. Each trip, the driver can report the weight of the recycled materials. The plant also tracks the amount of **steel** that is recycled from this facility.

Normalizing Basis:

Units of products produced

Normalizing Basis Notes:

	Baseline	Year 1	Year 2	Year 3
Year	2009			
Actual Quantity	20660			
Normalizing Ratio	1			
Normalized Quantity	20660			

Units:

lbs

Cost Savings Last Year (do not include savings that resulted from reduced utility rates, etc. Only use those that resulted from pollution prevention efforts):

\$ 489.55

Additional Cost Savings Information:

The Spotsylvania plant began to document the weight of their recycled materials during the past year.

EMS & ENVIRONMENTAL PERFORMANCE UPDATE

EMS Development Progress: The Spotsylvania plant continues to set goals around its most significant environmental aspects, water quality and dust emissions. Goals are set at the start of each year and are tracked on a quarterly basis during regular environmental inspections. At the end of the year, a comprehensive evaluation audits field conditions as well as the plant's documentation of all environmental correspondence, permits, and training.

In 2009, the Spotsylvania plant completed two of its goals in regard to **improving water quality:**

1. Erosion on and around the north berm was minimized by changing the slope of the road, grading the area, and adding vegetation.
2. The plant's stormwater outfall was redesigned and stabilized during the summer to reduce suspended solids discharge in stormwater.

In 2009, the Spotsylvania plant completed two of its goals in regard to **improving dust emissions:**

1. An emphasis was placed on training plant associates on improved dust suppression techniques and methods to measure and eliminate particulates.
2. The coffin box at Station 1 was updated and wet suppression measures were improved.

Comments Related to Compliance Issues: The Spotsylvania plant did not have any violations, warnings, or other apparent compliance issues during 2009.

ADDITIONAL INFORMATION

Awards and Recognition: 1. The Spotsylvania plant was recognized for its promotion to the E3 level of the Virginia Environmental Excellence Program in 2009.

Outreach to the Public: 1. In April, 2009, facility associates participated in the Friends of the Rappahannock annual river cleanup by coordinating efforts on one section of the river.
2. The Spotsylvania plant cleans a 2-mile portion of Smith Station Road as part of the Department of Conservation and Recreation's Adopt-a-Highway program.
3. Plant associates participate in public meetings to share ideas concerning environmental stewardship, including the Spotsylvania Planning Commission, the Spotsylvania Board of Supervisors, the Lees Park Homeowners Association, among others.

Best Practices: Noise suppression; dust suppression; avoidance of streams and wetlands; berms and open-space buffer areas that assist noise suppression, wildlife habitat, and improve visual aesthetics; wash racks and road sweeping and washing; recycle process water to reuse in the plant; recycling to reduce waste disposal; timber replanting; restoration and reclamation of impacted sites

Others: 1. Luck Stone coordinates with Dominion Power to shut down during peak power usage days.

