

Placon's EMS System



Audit Results

- Zero formal audits in 2015
 - Decision was made to no longer pursue ISO 14001 certification
- EMS team still functional
 - Informal review of EMS program revealed no major findings

Identified Aspects/Impacts

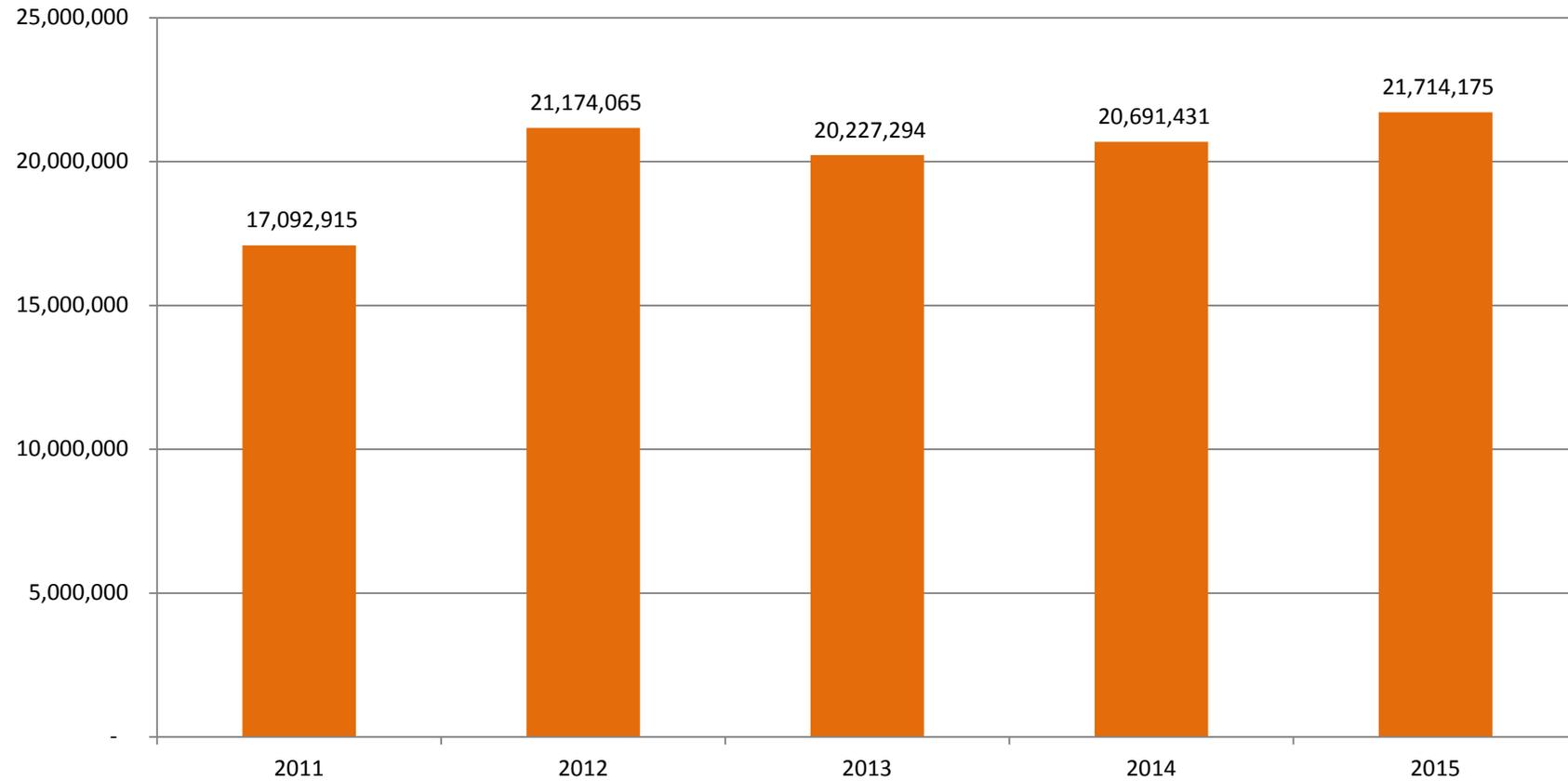
Aspect #	Significant Aspect	Related Activities, Products & Services	Responsible Party	Key Operation Characteristic	Operational Control	Monitoring & Measuring Technique	Comments / Status	Objects / Targets Programs
1	Potential Spill	*Raw & Process Abamectin Storage & Handling; *Caustic and Sulfuric Acid handling and storage in EcoStar; *PIT Batteries	Brian Colloton, Chris J	Proper Storage & Handling, Emergency Action & Response Plan (EARP)	Engineering Controls (Structural), Work Instructions & Emergency Action & Response Plan	Incident reports	No documented incidents w/RQ	
2	Characteristic Hazardous Waste	PET Recycling (Grinder Sludge, Wastewater Treatment Sludge)	Pete Schroepfer, Chris J	pH adjust, proper handling and disposal	Work Instruction, pH measuring and documentation	pH measuring, periodic testing	within control	
3	Radiation/X-ray devices	Extrusion 01 & Extrusion 02	Chris J, Jim Hart	PM's	Work Instructions, documentation, licensing	Vendor reports	within control	
4	Liquid Industrial Waste	North Plant Zero Discharge Permit	Chris J, Brett Hubbard	Discharge Permit	Drain plugs, work Instructions, documentation, regulatory reporting	Incident reports, recordkeeping	within control	
5	Pesticide Usage	North Plant	Brett Hubbard, Brig Borcharding	Recordkeep[ing]	Annual Report	Recordkeeping and regulatory reporting	within control	
6	Waste Water	PET Recycling	Pete Schroepfer	pH	pH probe calibration and recordkeeping, and automatic shut-off valves	Buffer solutions, and download from pH datalogging system	within control; >5.5,<10	
7	Air Pollution	Main Plant Baghouse	Chris J, Jim Hart, Brian Colloton	Monitoring /Measuring	Manual Reading, PM, calibration of meter, MPAP	meter Readings and documentaion	within control	

2015 EMS Objectives and Targets

- Maintain within permit limit to MMSD ✓
- Decrease in Total lbs sent to landfill ✓
- Increase in Total lbs Recycled ✓
- Decrease Total gallons of water used ✓
- Decrease in Regulated / Non Regulated / Hazardous Waste ✓
- Decrease Greenhouse Gases (MT of CO₂e) ✓

Gallons of H₂O Used

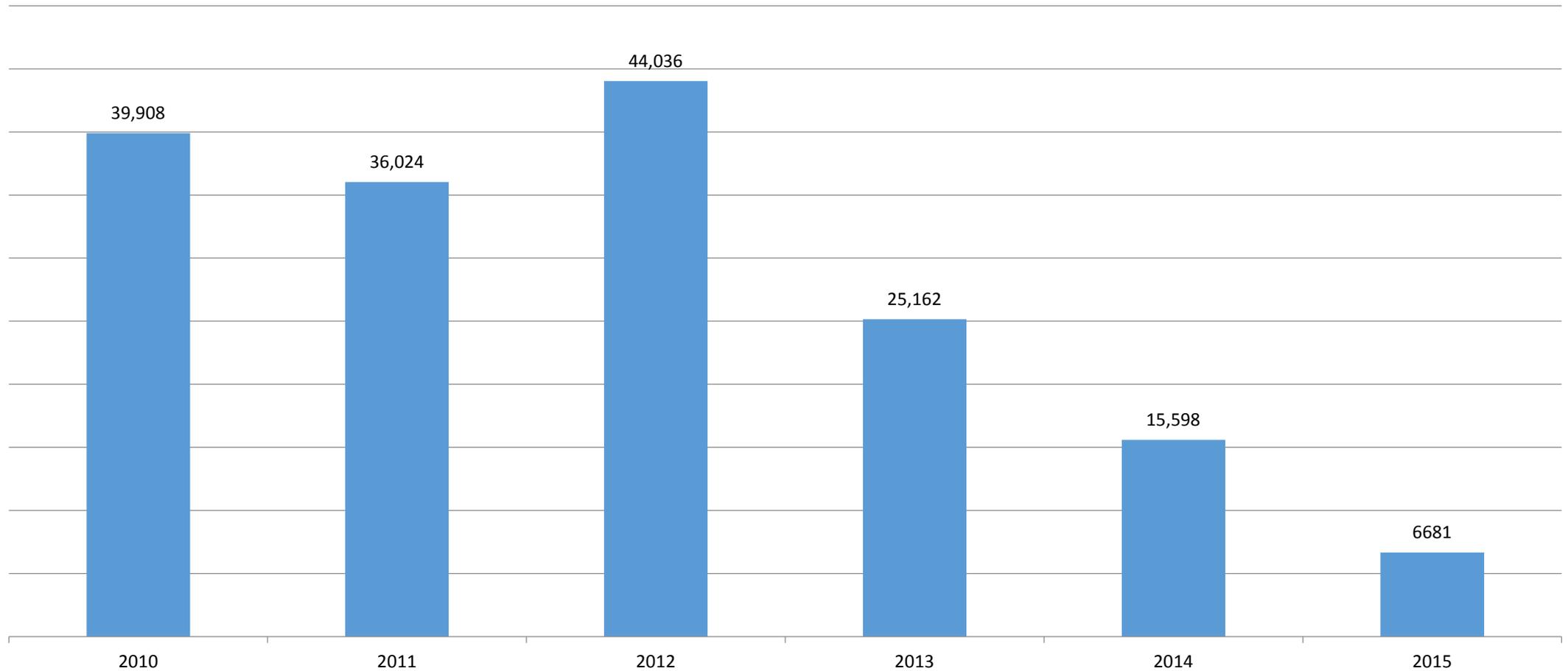
H2O Usage



Non-Regulated Waste

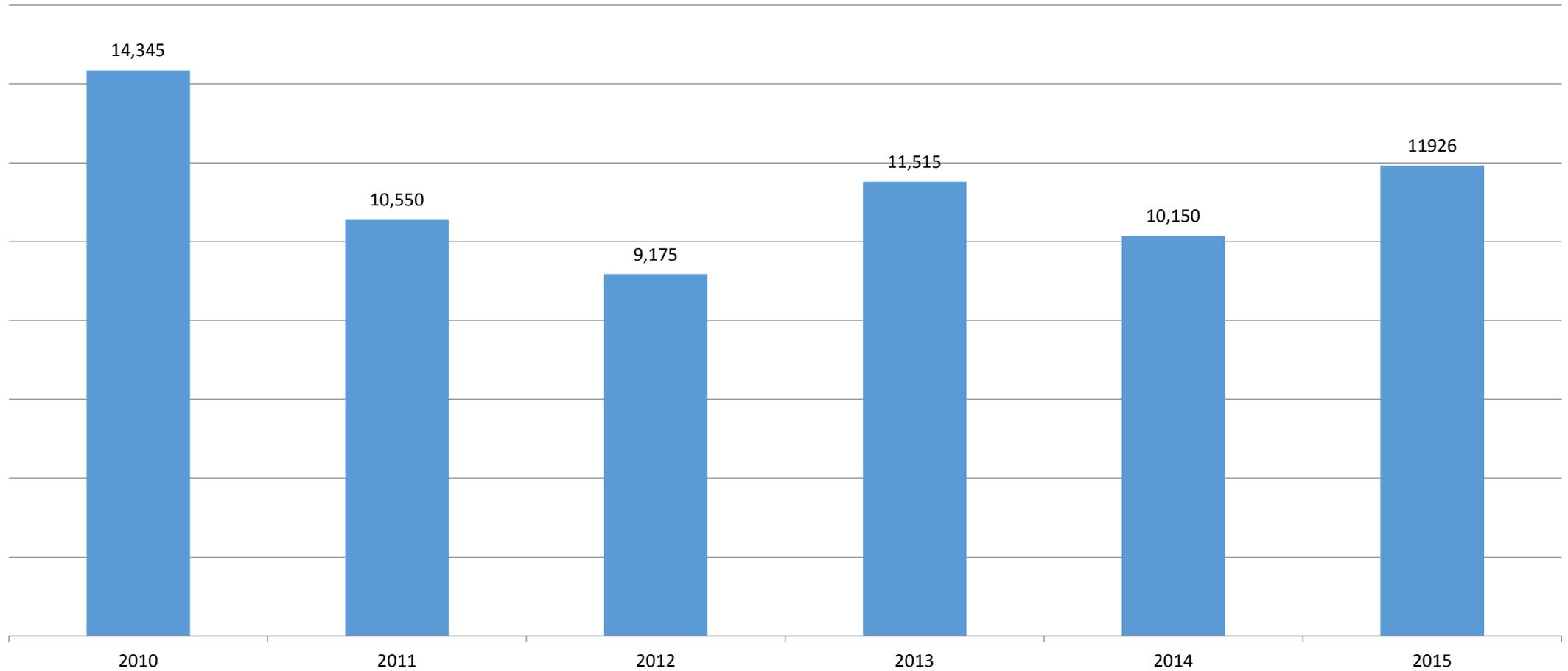
(mop water in NP)

(in lbs)

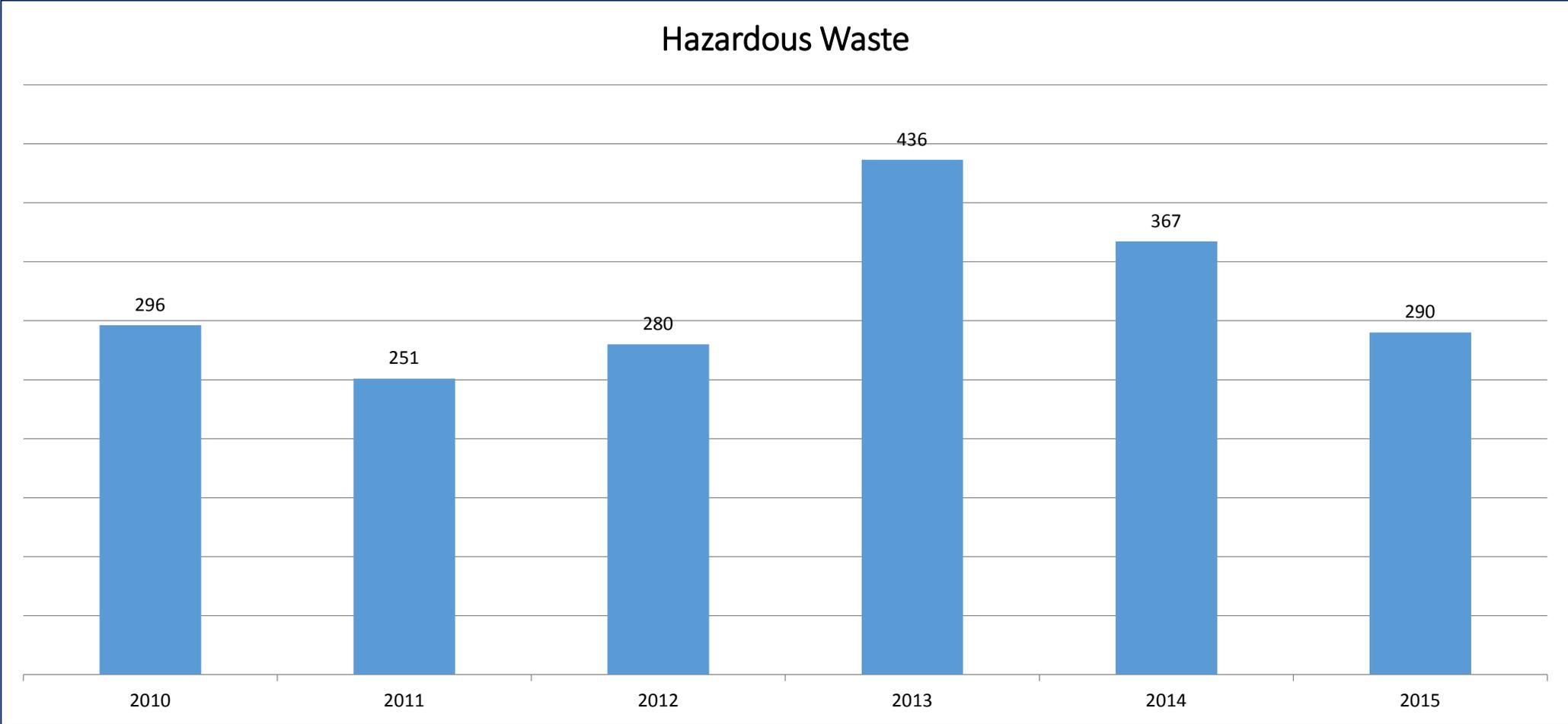


Regulated Waste

(Other than Hazardous) (Abamectin)
(in lbs)

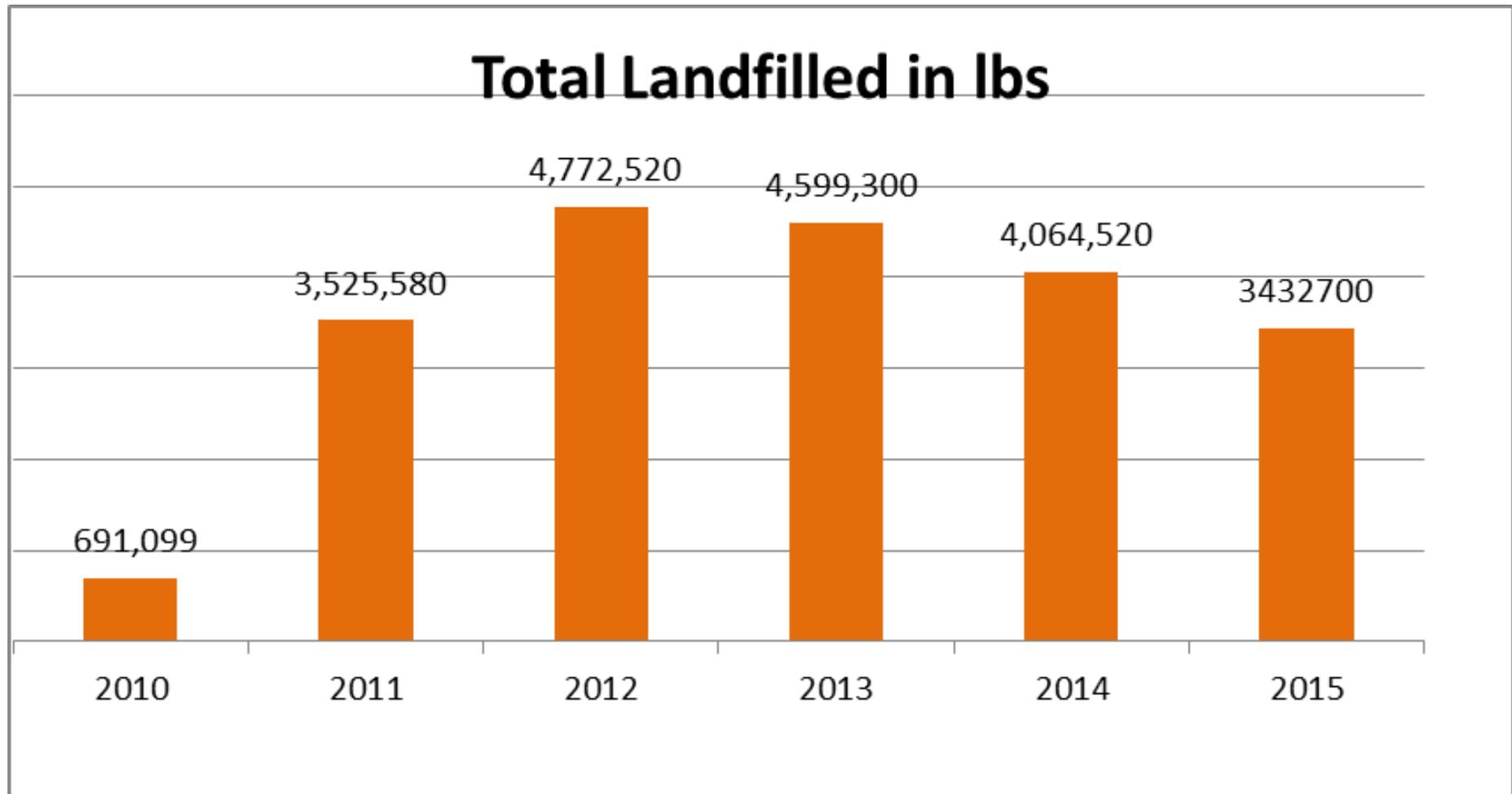


Hazard Waste

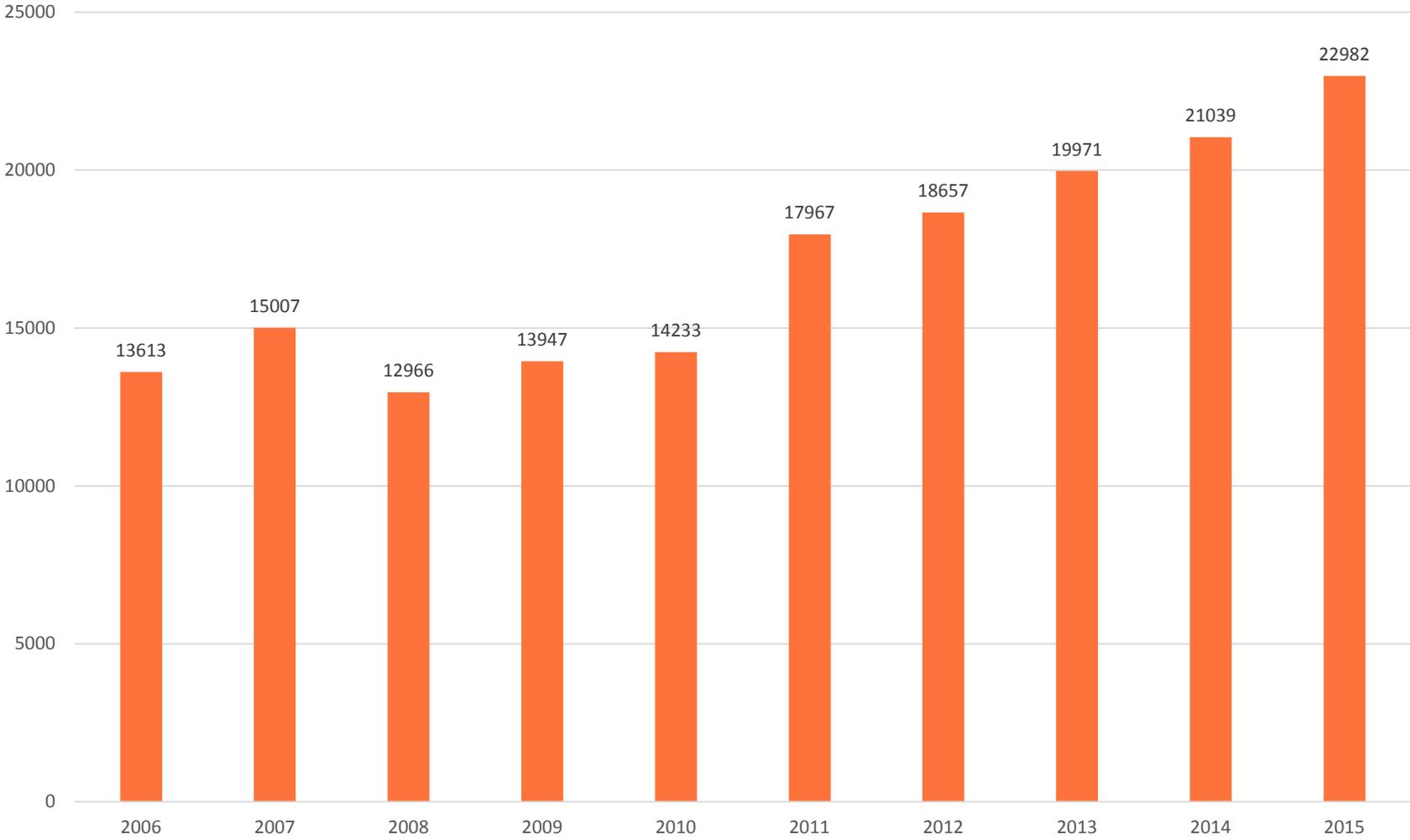


Total Landfilled

(in lbs)



MT of CO₂e



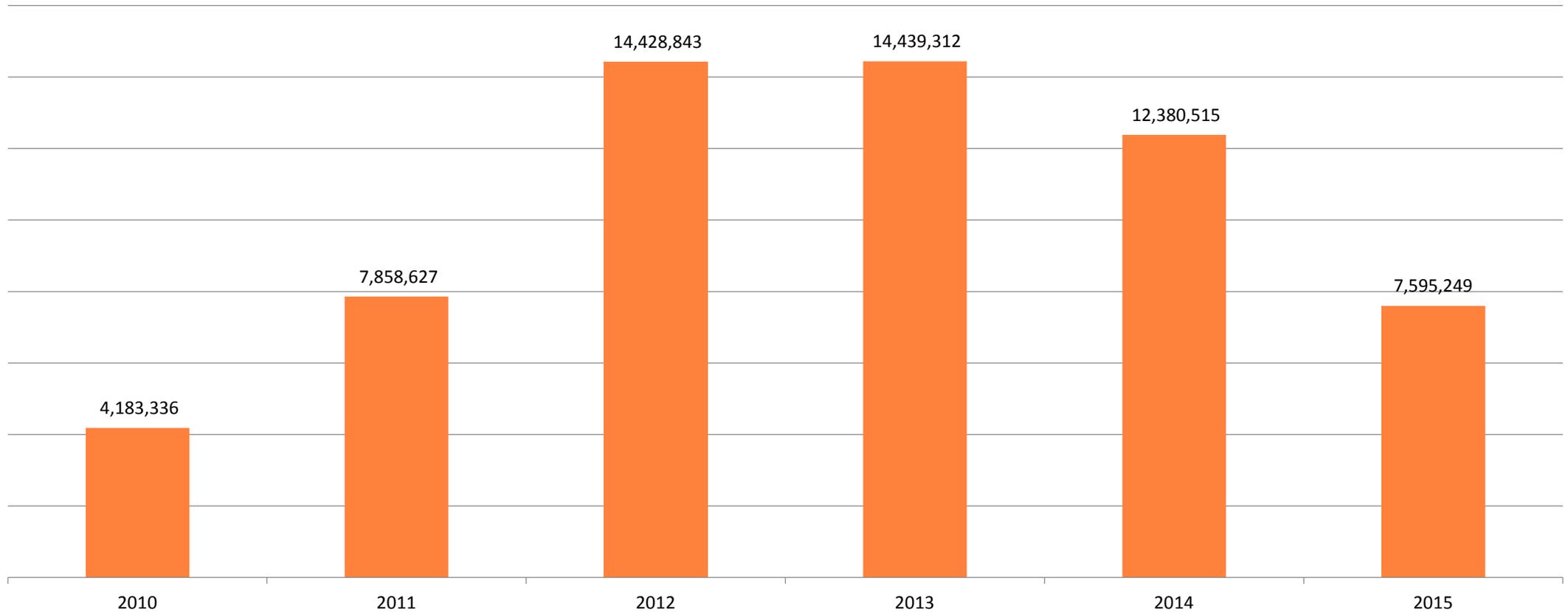
Based on gas and electric usage only

Total Recycled

(in lbs)

= 3798 Tons

Total Recycled in lbs



**WISCONSIN DNR GREEN TIER
SUSTAINABILITY METRICS**

Period Covered: 2015

Company Name:	Placon Corporation
Facility Name:	
Address:	6096 McKee Road
City, State, Zip:	Madison, WI 53719
Environmental Coordinator:	Chris Jagodzinski
Coordinator Phone:	608-278-6023
Coordinator E-Mail:	cjagodzinski@placon.com

Metric	Not Collected/ Not Available	Quantity	Units	Period - if not Calendar Year
DEMOGRAPHICS				
Sales	x			
Money saved because of material or process improvement	x		\$	
Profit or Loss	x		%	
Employees		360	Each	
Multiple between highest paid and lowest paid employee	x		%	
Alternative Transportation Support	x		\$ or ?	
Total Purchases	x		\$	
In-State Purchases	x		\$	
% of Purchases Made from Companies that participate	X			%
LAND				
Total Land		9	Acres	
Paved/Covered Land	x		Acres or sq ft	
ENERGY				
Electricity		37684882	kWh	
		3	% reduction	
Natural Gas		753766	therms	
		6	% decrease	
Renewable Energy (generated on-site)		0	% of total use	
Renewable Energy (as a % of utility electricity mix)		0	%	
WATER				
Total Water Used		21,714,175	gallons/year	
		5	% increase	
Source - private well		0	% of total use	
Source - public system		100	% of total use	
Water Recycled/Reused	x		gallons/year	
	x		% reduction	
AIR				
Total Air Emissions		55917	lbs/ year	
	x		% reduction	
Greenhouse Gas Emissions		5788	lbs/ year	
	x		% reduction	
WASTE				
Hazardous Waste Disposal		290	lbs/ year	
		21	% reduction	
Universal Waste Disposal		11926	lbs/ year	
		46	% increase	
Non-Hazardous Waste Disposal		6681	lbs/ year	
		58	% reduction	
Material Recycled/ Reused		7,595,249	lbs/ year	

increased production

Material Recycled/ Reused		39	% decrease	
Recycled/ Reused Content	x		% of product	
TRANSPORTATION				
Hybrid Vehicles		0	Each	
Gasoline Used	x		Gallons	
Diesel Used - vehicles		0	Gallons	
Diesel Used - Generators		0	Gallons	
Alternative Fueled vehicles (CNG, LNG, Fuel Cell, Electric)		0	#	
ADDITIONAL METRICS				
Please list all other designations/certifications (for example: LEED, Green Globes, Green Masters, Energy Star, ISO 14001):				

2016 EMS Objectives and Targets

- Maintain within permit limit to MMSD
- Decrease in Total lbs sent to landfill
- Decrease Total gallons of water used
- Decrease in Regulated / Non Regulated / Hazardous Waste
- Decrease Greenhouse Gases (MT of CO₂e)
- 5% decrease in overall electricity usage through “Focus on Energy” initiative
- Increase total pounds recycled per hour of line time

2015 EMS O&T Failures

- “Increase in total pounds recycled”
 - We failed to increase our total pounds recycled as a facility due to the current state of the plastic resin market. As you may or may not know, our Ecostar facility brings in plastic bottles and converts them to flake which is used to make plastic sheet. The market prices for virgin resin was basically the same as it cost us to make the flake. A business decision was made to not use as much recycled materials, therefore we did not achieve the target of increasing total pounds used. We do anticipate a shift back towards recycled materials being cheaper than virgin in 2016 and will meet our target.

2015 EMS O&T Failures

- “Decrease total gallons of water used”
 - We failed to show a decrease in total gallons of water used during 2015 do to the fact that 2015 was a full year of data from a new extrusion line. Naturally by increasing the production capacity of our process by roughly 1/3, we saw an increase in water usage. With 2015 data representative of an entire year, we anticipate 2016 numbers to decrease due to the focus we have placed on being more aware of water usage.

2015 EMS O&T Failures

- “Decrease Greenhouse gases”
 - Similar to our water usage, 2015 represented a full year of data on our #3 extrusion line. By increasing capacity roughly 1/3, we naturally saw an increase in energy usage. We expect these numbers to decrease in 2016 as a result of the “Focus on Energy” initiative currently underway.

2015 EMS O&T Failures

- I believe that our EMS system did not look further enough into the changes coming to the business before setting the yearly O&T. The addition of a new line should have been considered, and the conclusion drawn that it would not be possible to decrease greenhouse gases and water while adding a new line. We have now included a review of capital projects to the list prior to setting O&T for the next year.