



**INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM
ANNUAL PERFORMANCE REPORT**

State Form 53475 (R3 / 1-11)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ENVIRONMENTAL STEWARDSHIP PROGRAM

Indiana Department of Environmental Management
Office of Pollution Prevention and Technical Assistance
MC 64-00, Room IGCS W041
100 North Senate Avenue
Indianapolis, IN 46204-2251
Telephone: (800) 988-7901
FAX: (317) 233-5627
E-mail: esp@idem.IN.gov

Please use this form if you are a member of the Indiana Environmental Stewardship Program (ESP) to report on progress toward objectives and targets AND certify ESP requirements continue to be achieved. Indiana ESP facilities must submit an Annual Performance Report (APR) by April 1st of every year, for each calendar year in which the entity has been a member for at least three (3) full months. Section C of your APR should be signed by your ISO 14001:2004 EMS Lead Auditor. Your APR should be reviewed and signed by a senior manager at your facility prior to submittal. Once signed, e-mail the APR to IDEM at esp@idem.IN.gov. Please do not include any confidential business information in your annual performance report. Public access laws require IDEM to make the APR publicly available, which may include posting all portions of your report on the Indiana ESP Web site. If you have any questions, please contact IDEM at esp@idem.IN.gov or (800) 988-7901.

SECTION A		FACILITY INFORMATION	
Name of facility		Metaldyne BSM LLC	
Name of parent company (if applicable)		Metaldyne LLC	
Street address (number and street)		307 S. Tillotson Street	
City / State / ZIP code		Fremont IN 46737	
Web site of Facility/Company		www.metaldyne.com	
		CONTACT INFORMATION	
Name of Contact (Mr. / Mrs. / Ms. / Dr.)		Mr. Michael Ashmore	
Title		Plant Manager	
Telephone number		260-495-4833	
FAX number		460-495-4732	
E-mail address		mikeashmore@metaldyne.com	
Mailing address (if different from facility address)			
City / State / ZIP Code			
		REPORTING PERIOD	
Reporting period dates (month, day, year)		2014 Annual	
1a. Is this the third Annual Performance Report of your membership term?		<input type="checkbox"/> Yes—If yes, answer question 1b. <input checked="" type="checkbox"/> No—If no, skip to the "Change in Information" section of this report.	
1b. Do you wish to renew your Indiana Environmental Stewardship Program membership?		<input type="checkbox"/> Yes—If yes, please complete all sections of this annual report. <input type="checkbox"/> No—If no, please complete all sections of this annual report except for Section F.	
		CHANGE IN INFORMATION	
In your ESP application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any changes or additions to your facility's list of products or activities?		<input type="checkbox"/> Yes—If yes, please describe them: <input checked="" type="checkbox"/> No	
SECTION B		PUBLIC OUTREACH AND PERFORMANCE REPORTING	
Why do we need this information? IDEM needs to know how environmental information was shared with the public.		What do you need to do? Describe how the facility has shared and plans to share environmental information.	
Please briefly describe the activities that your facility conducted during this reporting period to interact with the community on environmental issues and to report publicly on its environmental performance.			
Please indicate which of the following methods your facility plans to use to make its ESP Annual Performance Report available to the public. Please check as many as appropriate.			
<input type="checkbox"/> Web site (http://www ._____) <input type="checkbox"/> Open house <input checked="" type="checkbox"/> Meetings <input type="checkbox"/> Press releases <input checked="" type="checkbox"/> Other lobby powerpoint presentation			

SECTION C

ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT

Why do we need this information?

Facilities need to have implemented an EMS that meets certain criteria and use an ISO 14001:2004 EMS Lead Auditor at least every 36 months to assess the EMS.

What do you need to do?
Answer the following questions
about your EMS.

1. What is the most recent date that an ISO 14001:2004 EMS Lead Auditor performed an EMS assessment at your facility? Oct 6-7, 2015

2. Is the date of the most recent EMS assessment performed by an ISO 14001:2004 EMS Lead Auditor within the past 36 months?

Yes—If yes, skip to Question 3.

No—If no, please have your ISO 14001:2004 EMS Lead Auditor complete and sign the following checklist, indicating whether or not your EMS meets the listed criteria for ESP membership:

Yes No Evidence of senior management support, commitment, and approval.

Yes No A written environmental policy directed toward compliance, pollution prevention, and continuous improvement.

Yes No Identification of the environmental aspects at the entity.

Yes No Prioritization of the environmental aspects and a determination of those aspects deemed significant considering, at the minimum, environmental impacts and applicable laws and regulations.

Yes No Established priorities, and environmental objectives and targets for continuous improvement in environmental performance and for ensuring compliance with applicable environmental laws, regulations, and permit conditions. Objectives and targets must go beyond current legal requirements and specify the environmental media, types of pollution to be prevented or reduced, implementation activities, and projected time frames.

Yes No An established community outreach mechanism that includes identifying and responding to community concerns; informing the community of important matters that affect the community; and reporting on the EMS, including reporting to the public on the environmental policy and significant aspects.

Yes No Incorporation of environmental and pollution prevention planning in the development of new products, processes, and services and modifications of existing processes.

Yes No Evidence of clear responsibility for implementation, training, monitoring, EMS maintenance, taking corrective action, and ensuring compliance with applicable environmental laws, regulations, and permit conditions.

Yes No Documentation of the implementation procedures and the results of implementation.

Yes No Appropriate written EMS procedures.

Yes No An annual evaluation of the EMS with written results provided to senior management and affected employees.

Signature of ISO 14001:2004 EMS Lead Auditor

Date (month, day, year)

3. Were any deficiencies found during the most recent EMS assessment?

No—If no, skip to Question 4.

Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency: see attached addendum

4. Name, title, and organization of ISO 14001:2004 EMS Lead Auditor that conducted the most recent EMS assessment: Maureen Pockocke, BSI Auditor

5. What type of protocol was used to perform the independent EMS assessment?

ISO 14001:2004 Certified audit

Responsible Care EMS audit

Responsible Care 14001 audit

ESP Independent Assessment Protocol

Other (please specify):

6. Is the EMS certified to a recognized standard?

Yes—If yes, what standard does the EMS follow (please provide a copy of the most recent certificate)?

ISO 14001:2004

Responsible Care EMS

Responsible Care 14001

No.

7. When was the last Senior Management review of your EMS completed?

Month / Year: December 2014

Who headed the review (name and title)? Julie Carmicheal, HR Manager/EMR

8. When did your facility last conduct an internal or corporate environmental compliance audit? Do not include inspections or site visits by regulatory organizations.
 Scope of the compliance audit: EMS Audit - Complete System
 Month(s) / Year(s): August 2014
 Who conducted the audit(s) (e.g., facility staff, corporate, third party)? Corporate and facility staff

9. Explain the emergencies experienced within the facility during the past year. Were the applicable emergency and contingency plans detailed in the EMS effective? What changes, if any, have been made to your facility's emergency or contingency plans?
none reported this year

10. Has your facility corrected all instances of potential environmental non-compliance and EMS non-conformance identified during your audits and other assessments?
 Yes—If yes, briefly summarize corrective actions taken and other improvements made as a result of your EMS assessment(s) or compliance audit(s).
 No—If no, please explain your plans to correct these instances. No such instances identified.

11. (Optional) Please provide a narrative summary of progress made toward EMS objectives and targets other than those reported as an Environmental Performance Initiative in Section E. You may limit the summary to environmental aspects that are *significant* and towards which *progress* has been made during the last calendar year. Attach additional sheets as necessary.

Environmental aspect	Progress made this year (e.g., quantitative or qualitative improvements, activities conducted)
Plastics	Recycled

SECTION D ADDITIONAL INFORMATION

Why do we need this information? This information will help IDEM to effectively manage the Environmental Stewardship Program. What do you need to do? Answer the questions as completely as possible.

1. In addition to ESP, please list environmental awards received or voluntary programs participated in during the past twelve months.
Metaldyne Corporate EHS Recognition Program - Highest Level Achievement and overall score - Gold Flag - Fifth year in a row!

2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.
n/a

3. If your facility was not registered to the ISO 14001 standard prior to becoming an ESP member, has ESP helped you to pursue registration? If so, how has ESP been instrumental in achieving registration?

SECTION E ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS

Why do we need this information? Facilities need to share the results of the environmental improvement initiative that was pursued during the reporting period. What do you need to do? Summarize your facility's progress on achieving the initiative you identified in the application or last year's APR.

Category: <u>Energy/Non Haz Waste</u> Indicator: <u>Elect/Landfill/Reu/Recycl</u>	Baseline Quantity	Future Goal Quantity	Current Quantity	Cost Savings
Calendar year	2013	2014	2014	\$33,000 estimated electrical usage savings in air leaks fixed; \$4,500 saved due to gloves recycled
Actual quantity (per year)	8,543,368/256,680	8,287,066/254,113	<u>11,246,400 / 274,350</u>	
Normalized quantity (per year)	<u>\$53,870,448.78</u>		<u>\$68,624,247.16</u>	
Basis for your normalizing factor (e.g., gallons of paint produced)	<u>kWh ; lbs. NF = 1.2739</u>			
Measurement unit (e.g., pounds)	<u>kWh/sales ; lbs/sales</u>			

Briefly describe how you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress.
Tested equipment for air leaks and energy efficiency and repaired as such. Also began glove and machine filter reuse program reducing costs and landfill.

Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL).
n/a

(Optional) If your facility has experienced continued results for environmental Improvement Initiatives pursued in past years of ESP membership, please share those results here.
Recycling cardboard and plastics; converting absorbent from waste to energy; noise reduction; improved electrical usage/lighting; hazardous waste reduction

SECTION F

ENVIRONMENTAL IMPROVEMENT INITIATIVE

Why do we need this information?
Facilities need to show they are committed to improving their environmental performance.

What do you need to do?
Refer to the Environmental Performance Table and answer the following questions.

1. Select the appropriate boxes in the following table to indicate the category and indicator(s) that represents the environmental improvement initiative selected by your facility. For the category and indicator selected, list the baseline year (e.g., 2009) and the future year (e.g., 2010). Next, list the baseline annual quantity (e.g., 5 tons) and future annual quantity (e.g., 2 tons) you are committing to achieve by the end of the future year.

Category	Indicator	Baseline Year 20_14	Future Year 20_15	Unit
<input type="checkbox"/> Material Procurement	<input type="checkbox"/> Recycled content			Pounds, tons
	<input type="checkbox"/> Hazardous/toxic components			Pounds, tons
<input type="checkbox"/> Suppliers' Environmental Performance	<input type="checkbox"/> Specify indicator: _____			As specified for the particular indicator
<input type="checkbox"/> Material Use	<input type="checkbox"/> Materials used			Pounds, tons
	<input type="checkbox"/> Hazardous materials used			Pounds, tons
	<input type="checkbox"/> Ozone depleting substances used			CFC-11 equivalent pounds
	<input type="checkbox"/> Total packaging materials used			Pounds, tons
<input type="checkbox"/> Water Use	<input type="checkbox"/> Total water used			Gallons
<input type="checkbox"/> Energy Use	<input type="checkbox"/> Electricity			kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Steam			kWh / MWh, gallons, ft ³
	<input type="checkbox"/> Natural gas			Btu / MMBtu
	<input type="checkbox"/> Diesel			Gallons
	<input type="checkbox"/> Propane / LPG			Btu / MMBtu, gallons
	<input type="checkbox"/> Gasoline			Gallons
	<input type="checkbox"/> Solar			kWh / MWh
	<input type="checkbox"/> Wind			kWh / MWh
	<input type="checkbox"/> Landfill gas			Btu / MMBtu
	<input type="checkbox"/> Combined heat and power			kWh / MWh, Btu / MMBtu
<input type="checkbox"/> Land and Habitat	<input type="checkbox"/> Land and habitat conservation			Square feet, acres
	<input type="checkbox"/> Community land revitalization			Square feet, acres
<input type="checkbox"/> Air Emissions	<input type="checkbox"/> Total GHGs			MTCO ₂ E
	<input type="checkbox"/> VOCs			Pounds, tons
	<input type="checkbox"/> NOx, SOx, PM _{2.5} , PM ₁₀ , or CO			Pounds, tons
	<input type="checkbox"/> Air toxics			Pounds, tons
	<input type="checkbox"/> Odor			European Odour Units
	<input type="checkbox"/> Radiation			Curies, Becquerels
	<input type="checkbox"/> Dust			Pounds, tons
<input type="checkbox"/> Discharges to Water	<input type="checkbox"/> COD or BOD			Pounds, tons
	<input type="checkbox"/> Toxics			Pounds, tons
	<input type="checkbox"/> Total suspended solids			Pounds, tons
	<input type="checkbox"/> Nutrients			Pounds, tons of N or P
	<input type="checkbox"/> Sediment from runoff			Pounds, tons
<input type="checkbox"/> Non-hazardous Waste <input type="checkbox"/> Hazardous Waste	<input type="checkbox"/> Pathogens			MPN/ml, CFU/ml
	<input type="checkbox"/> Landfill			Pounds, tons
	<input type="checkbox"/> Incineration			Pounds, tons
	<input checked="" type="checkbox"/> Reused/recycled off-site	450,598	473,128	Pounds, tons, gallons
	<input type="checkbox"/> Other: _____			Pounds, tons, gallons
<input type="checkbox"/> Noise	<input type="checkbox"/> Noise			dBA
<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration			Inches per second
<input type="checkbox"/> Products	<input type="checkbox"/> Expected lifetime energy use			kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Expected lifetime water use			Gallons
	<input type="checkbox"/> Expected lifetime waste to air, water, or land from product use			Pounds, tons
	<input type="checkbox"/> Waste to air, water, or land from disposal or recovery			Pounds, tons

2. What activities or process changes do you plan to undertake at your facility to accomplish your initiative (e.g., technology changes in a particular process line, employee training)? See attached word document.

3. Does this initiative address a significant aspect in your EMS?

Yes

No—If no, please explain why you believe this indicator should be included as an environmental improvement initiative:

CERTIFICATION AND PLEDGE

On behalf of (name of facility) Metaldyne BSM LLC

I certify that the information contained in this Annual Performance Report and attachments is accurate to the best of my knowledge and that this facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with all applicable federal, state, and local environmental requirements, or has a corrective action program in place to attain compliance.

We, Metaldyne BSM LLC, commit to maintaining the principles and goals outlined in our Environmental Management System for our facility's Indiana Environmental Stewardship Program status. We agree to strive for full compliance with all regulations promulgated by the U.S. EPA, state, or local jurisdictions. We agree to promote the Indiana Environmental Stewardship Program and to share our success stories with other facilities. We understand that the Annual Performance Report must be submitted to IDEM by April 1st of each year and that we must reapply to the Indiana Environmental Stewardship Program every three years.

I understand that the information provided in this Annual Performance Report will be public record. I am the senior facility manager or authorized facility signatory, and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is submitting this Annual Performance Report.

Signature 	Title Plant Manager	Date (month, day, year) 03/31/2015
Printed signature Michael R. Ashmore		

bsi.



Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM

This is to certify that:

Metaldyne BSM, LLC
307 South Tillotson
P.O. Box 615
Fremont
Indiana
46737-0615
USA

Holds Certificate Number:

EMS 69611

Operates an Environmental Management System

which complies with the requirements of

ISO 14001:2004

for the activities detailed in the scope of registration.

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

Originally registered: **01/22/2003**

Expiry Date: **10/11/2015**



...making excellence a habit.™

This is a presentation certificate only. This is not a legal document and cannot be used as such.
Only the legal certificate should be used for confirming certificate validity and scope of registration.
For further information please contact the certificate holder or BSI on 703 437 9000 or www.bsiamericas.com.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 845 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.



Ultrasonic Air Leak Survey
 Metaldyne
 Fremont IN
 9/06/2014~9/07/2014

\$33,000 Discovered Losses

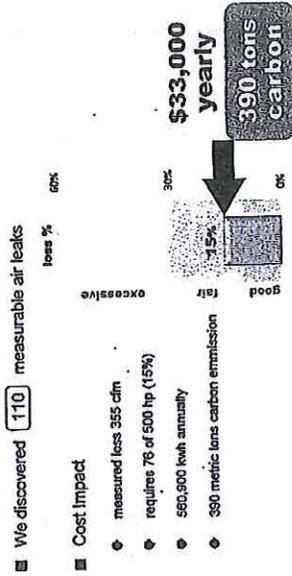
data collected by:
 Christopher Turcich

Prairie Predictive LLC
 13W677 81st Street
 Burr Ridge IL 60485 USA
 phone (317) 893-5782
 www.PrairiePDM.com



Ultrasonic Air / Gas Leak Survey Summary

Metaldyne
 Compressed Air Survey
 Job 14D900-1



■ Top Ten Air Leaks

ref	description	annual cost
56	World Engine OP Pre-Assembly Cell Two	\$ 796
55	World Engine OP Pre-Assembly Cell Two	\$ 720
86	TR1K/2K ZL25 #11073	\$ 758
13	Long Shaft Cell Hey Face #9463	\$ 729
7	Short Shaft Cell Hey Face #9462	\$ 682
51	World Engine Disassembly Bolt Washer	\$ 654
44	WE Final Assembly Cell One Hydrotech OISCO lubricator	\$ 587
60	HSS Pre Assembly Cell One single chute bowl feeder	\$ 559
42	WE Final Assembly Cell One north side	\$ 540
59	OP 75 Pre Assembly conveyor behind machine	\$ 540

See Inspection and Calculation Methodology on following pages

Thank you for selecting Prairie Predictive

Metaldyne BSM LLC 2014 ESP Report Addendum

Section C. #3 – Deficiencies in EMS Assessment

1.0 Noncompliance for storm water inspections not being performed per the requirements in the ECM. Inspections were not distributed for completion by the manager or supervisor to the appropriate personnel

Corrective Action: Set up task in Outlook monthly for inspection completion. Sends task completed to EMR as second review. Retrained employees assigned with task according to work manual.

2.0 Noncompliance for three boxes of universal waste - used fluorescent lightbulbs not properly marked for disposal. The employees did not properly place the used bulbs in the containers provided by the disposal vendor, therefore it was unclear of their status.

Corrective Action: Assure that new bulbs are located elsewhere and retrain all employees for proper understanding of universal waste disposal. Placed bulbs in proper boxes and labels on boxes so that the can now be disposed of properly.

3.0 Training - bulk chemical transfer training required annually, was missed in 2013. Inadvertently missed as it is conducted in conjunction with other environmental training. Training database data entry was behind.

Corrective Action: Bulk Chemical training was completed 10/13/14. Monitoring of training database entries is now a shared responsibility and a pokeyokey was put in place to catch up those missing training weekly.

Section E.

Again in 2014 had increases in sales and production volume. The net increase in sales dollars correlates with the net increase in electrical usage and general refuse generated. Our goal was to reduce electrical usage by 3% and essentially we reduced that by 3.9% factoring in the increase in sales. For waste, we set a goal to reduce waste by 1% through our recycling efforts. Including all avenues of recycling and factoring in the increase in sales, we reduced 2.9%.

We did experience cost savings of \$33k by correcting the issues identified in the Ultrasonic Air Leak Survey conducted in September of 2014. We also saved over \$4500 through our glove recycling program, as well as 3300 less pairs of gloves going to the landfill!

Section F. 2.

Due to growth in business, sales and headcount, we feel the need to do a "Back to the Basics" In Recycling Initiatives. 2015 will be a year to revisit and revive the programs we successfully implemented in years past. By doing this we will retrain all employees, gain feedback, and empower everyone to preserve our environment.

Fremont Operations- PPE Recycling Project Description

Name of Person Completing Form: Lora Shields

Project Team Members: Julie Carmicheal, Steve May, Joe Czajka, Joey Whitley, Lora Shields, Production Employees, and Marty Jobs, Libra Industries

Start Date of the Project: March 2014

Completion Date of the Project: June 2014 – ongoing

Describe Project / Opportunity: It is exciting that Fremont has many recycling and safety initiatives in place! Always looking for opportunities, we observed that besides the high cost spent on PPE (specifically gloves) we also realized how much of the used PPE goes to the landfill. We began a fact finding mission to see if Fremont could benefit from recycling PPE and explored whether our usage and disposal was significant enough to make a difference – we all agreed it was beneficial and to our advantage to recycle and re-use wherever possible, not only for cost savings but most importantly to support Metaldyne's environmental and safety goals.



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Fremont Operations- PPE Recycling Project Goals and Achievements

Goal of Project (describe):

- Reduce or eliminate waste to landfill
- Reduce spending on PPE
- Encourage culture change within our facility

Did the Project Achieve Stated Goal? Why or why not?

- The project is on track and sustaining
- Continued support from employees at this facility and our supplier
- Our goal is to reduce spending on new PPE by 25% by end of Q1 2015



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Fremont Operations- PPE Recycling Project Action Steps

Steps Taken to Address Project (Implementation):

1. Contact Glove Supplier
2. Get Samples to review
3. Determine potential for cost savings
4. Reorganize PPE shelf
5. Establish collection barrel for glove recycling
6. COMMUNICATE project and incremental successes to all employees



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Fremont Operations- PPE Recycling Project – Partnering with Libra Industries <http://www.libraind.com/home.php>



GLOVE AND PERSONAL PROTECTIVE EQUIPMENT

SMART FOR BUSINESS. SMART FOR THE PLANET. SMART FOR YOU.

Our customers work in industries that reduce the use of protective gloves, understanding the hazards that their employees can come in contact with. The ease of replacing soiled gloves can add up quickly. As the nationwide leader in glove and personal protective equipment (PPE) recycling since 1988, Libra Industries offers a cost-effective solution that allows your employees to save money in our customers' pockets while keeping employees safe.

ANALYSIS

With access to all types of gloves and safety equipment, and a large inventory on-site, we help our customers determine the perfect product to meet the job function they need.

CLEANING

Libra meticulously cleans each item through a multiple process that begins by washing latex gloves and most synthetic items are treated with a non-toxic, non-hazardous solvent which effectively removes contaminants in a closed-loop process. Water-washable gloves are processed in a continuous bath washer (CBW), where they are treated with a pH balanced neutralizer to clean the gloves, remove any harmful residues and restore the glove with a pH balance nearly identical to that of human skin.

INSPECTION/REPAIR/SUDDLING

Newly cleaned gloves and bag are sorted by size/use and inspected for physical damage (i.e., holes), to meet pre-determined quality standards. Items that do not meet the standards are repaired or returned to the customer. Any items determined to be unsafe for reuse are clearly marked so no employee is at risk of using a product that offers subpar protection.



That's Right!

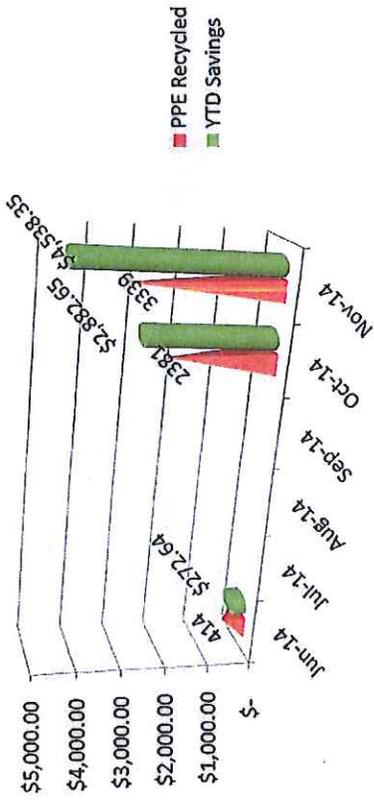
Unlike if Libra's Glove and Personal Protective Equipment Recycling Program is right for your company? Contact us today to set up a one-on-one consultation with our experts. We'll show you what we can do for you. Have them clean up for you!

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Fremont Operations- PPE Recycling Project Incremental Savings and Recycling as of November, 2014



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Fremont Operations – PPE Recycling Project - Benefits



What Benefit Does the Project Provide to Employees and/or Operations at the Facility?
 The benefit provided by recycling and reusing PPE is less waste going to the landfill and potential cost savings. While in the end the PPE still goes to the landfill, we are getting 4-5 uses from the same PPE item before having to replace and then dispose.
 All of us benefit from participating in initiatives that prove we care about our environment and our community.

PPE recycling is just the next step to add to many of Fremont's successes in 2014!
 Recycling plastic reached 1.3 tons exceeding the goal in 2013!
 Aerosol reduction/elimination by 77% with a 15% gain in useable product in 2012!



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