

# ENVIRONMENTAL SUSTAINABILITY SUCCESS STORIES



For Generations

## PACIFIC STATES

Replacement of open containers with covers and connecting devices has decreased housekeeping requirements (sweeping) by an hour a day, storm water contamination, fugitive dusts and problems associated with hazardous waste management in some cases.



Improvement of storm water quality was made with the installation of a storm water infiltration basin. This results in not releasing any storm water from this area.

### BEFORE INSTALLATION (2011–2012) AVG

189	mg/L	TSS
4.1	mg/L	Al
5.5	mg/L	Fe
1.2	mg/L	Zn

### CURRENT PERFORMANCE

DISCHARGE TO GROUNDWATER		
ND	mg/L	TSS
ND	mg/L	Al (dissolved)
0.2	mg/L	Fe (dissolved)
ND	mg/L	Zn (dissolved)

**2012 Off-Site Waste Costs Per Good Pipe Std Ton**  
Based on PD Requisitions (except for waste elements off-site)

Month	Gen	Heating	Casting	Gen	Sp	Cement	Hot Line	Utility	Ship	Gen	Plant	Garage	Enviro	Admin	Cap	Engrg	Month	Total	
Year	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Project	Report	Cost
02-Jan	\$0.15			\$0.08						\$0.45	\$0.04								\$0.68
02-Feb	\$0.75	\$0.04	\$0.07	\$0.02						\$0.08	\$0.02								\$0.92
03-Mar	\$0.08			\$0.01						\$0.01	\$0.01								\$0.10
04-Apr	\$0.01			\$0.04						\$0.11	\$0.04								\$0.16
05-May	\$0.04			\$0.01						\$0.02	\$0.02								\$0.08
06-Jun			\$0.01	\$0.01						\$0.47	\$0.09								\$0.58
07-Jul	\$0.40	\$0.01	\$0.01							\$7.84	\$0.10								\$8.36
08-Aug	\$0.01		\$0.75							\$0.01	\$0.79								\$1.56
09-Sep	\$0.07									\$0.01	\$0.01			\$0.01					\$0.10
10-Oct	\$0.04									\$1.07	\$0.42								\$1.53
11-Nov	\$0.11		\$0.14	\$0.04						\$0.16	\$0.11								\$0.56
12-Dec	\$0.01		\$0.01	\$0.01						\$0.16	\$0.04								\$0.18
Area Tot	\$0.79	\$0.04	\$0.08	\$0.08						\$1.85	\$2.54			\$0.02					\$7.04

1 - These entries are based on PD Requisitions. Best cost estimates are used to generate these requests but may not reflect absolute costs.  
 PC Requisitions may cover more items than reported during a given period and will be used until completed (e.g., an order for 5 months being 3 months complete).

Generation of off-site waste costs per area report to provide feedback of waste generation costs. On-site waste cost report to be developed during 2013.

Tracking of department environmental “incidents” (as defined by the facility) and given as a goal to employees to reduce incidents. Updated for 2013 to include “near-misses.”

YTD	Tons YTD	RM			Poles		Finishing		Mntc		Other					Total		
	43,096.38	RM	Melting	Casting	Poles	Hot Line	Cement	Sp Line	Ship	Quality	Mntc	Garage	Env	Contractor	Other		Mngt	Trucking
	Incidents Count	2	1	5	3	3	5	2	—	—	5	—	1	2	1		0	0
Incident Rate	0.05	0.02	0.12	0.00	0.07	0.12	0.05	—	—	0.12	—	0.02	0.05	0.00	0.00	0.00	0.63	



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Replacement of iron yard roof for **1)** improvement in storm water quality; **2)** safety (old roof was thin); and **3)** to make leak free.

Zinc from galvanization was being released from the roof during storms, impacting storm water quality. The new roof has reduced the zinc impact.

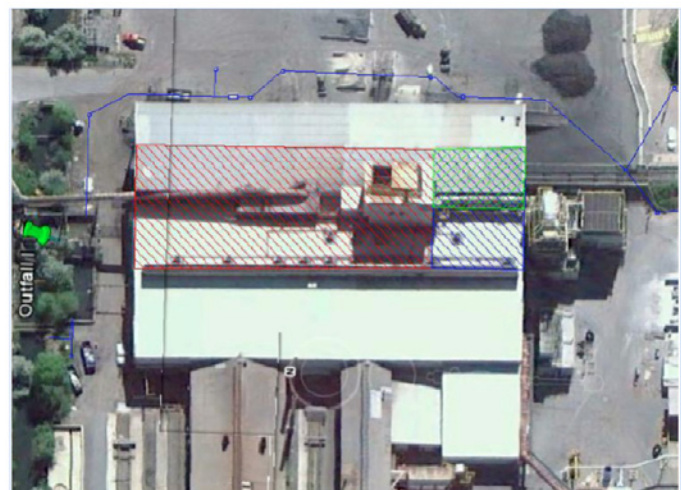
### BEFORE



Sampling Location	Dissolved Zinc Before New Roof (07/05/2012)	Dissolved Zinc After New Roof (11/09/2012) <sup>a</sup>
North Alley Roof	1.29 mg/L	0.56 mg/L
South Melting Roof	7.09 mg/L	< 0.05 mg/L
South Alley Roof	1.82 mg/L	0.32 mg/L

<sup>a</sup> Dissolved aluminum, copper, and iron concentrations were all below detection levels.

### AFTER



Sampling Location	Dissolved Zinc Before New Roof (07/05/2012)	Dissolved Zinc After New Roof (11/09/2012) <sup>a</sup>
North Alley Roof	1.29 mg/L	0.56 mg/L
South Melting Roof	7.09 mg/L	< 0.05 mg/L
South Alley Roof	1.82 mg/L	0.32 mg/L

<sup>a</sup> Dissolved aluminum, copper, and iron concentrations were all below detection levels.



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