CLEAN UTAH

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Annual Report

For the period of 2010

GRANITE CONSTRUCTION COMPANY - COTTONWOOD WEST HAVEN
Facility Name

1000 NORTH WARM SPRINGS ROAD, SALT LAKE 84116
Facility Street Address *City* *Zip*

Project Status

On a separate sheet, summarize:
- your Clean Utah project commitments and accomplishments made to date,
- major indicators of environmental improvements (measurable ways that you are determining the environment is improving as the result of steps you are taking),
- public participation activities you have undertaken, and
- your project plans for next year, as they relate to this program.

Certification Statement

(to be signed by the senior facility manager)

I certify that the information outlined in the attached annual report is correct and that this facility continues to meet all program criteria and has an active EMS, as defined by the Clean Utah program. I further certify that this facility has conducted periodic assessments of compliance with legal requirements, has corrected all identified instances of noncompliance, and is currently in compliance with all applicable federal, state, and local environmental rules and regulations.

Signed

1-26-2011
Date

TOM WALSON
Print Name

Environmental Manager
Title

Granite Construction Company

Environmental Improvement Project Results

Improvement Project #1: Cottonwood Wash Plant Facility – Operation of Belt Press and Dewatering Screen

Targeted Reduction Goals: Baseline comparison year is 2007

- 25% reduction in wash plant water use
- 10% reduction in mobile equipment hours (including corresponding air pollutant emissions) at the facility.

Water Usage Measurement Results

	Baseline (2007)	Year 1 (2010)	Delta (%)	Goal (%)
Wash Plant Water Usage Total	12,717,632 gal	4,983,202* gal	- 61%	NA
Wash Plant Production	463,057 tons	242,690 tons	- 48%	NA
Gallons Used Per Tons Produced	27.5 gallons/ton	20.5 gallons/ton	- **25.3%**	- **25%**

* Assumes a 25% water loss in recirculating the water recovered (5,036,313 total gallons) from belt press and dewatering screen.

Water Usage Performance Discussion

For the 2010 evaluation period we view the overall performance for water use reduction was very successful. For the first evaluation period for this improvement project, the addition of the belt press and the dewatering screen resulted in a seven gallon per ton of wash product produced reduction in wash plant water use. Several factors for the first year of evaluation influenced these results including a significant volume decrease in washed aggregates produced (economy driven) and the materials produced during the period were required to be rewashed, which is not typical for previous year's production patterns. The water recovery estimates highlight the performance success and allowed us to reuse recovered water for site dust control activities which for previous periods relied on the use and consumption of public water resources.

For 2011, we would like to continue the water usage tracking and evaluation. We feel the additional evaluation period will allow for a more accurate statistical analysis of performance and environmental benefit from the investment and process improvements implemented at the facility.

Mobile Equipment Hours and Pollutant Emissions Results

	Baseline (2007)	Year #1 (2010)	Delta (%)	Goal (%)
Wash Plant Equipment Hours	1,968	1,148	- 42%	- 10%
Emissions				
CO	0.81 tons/year	0.68 tons/year	- 16%	- 10%
NOX	2.21 tons/year	1.71 tons/year	- 23%	- 10%
PM10	0.16 tons/year	0.12 tons/year	- 25%	- 10%
PM2.5	0.16 tons/year	0.12 tons/year	- 25%	- 10%
SOX	0.24 tons/year	0.18 tons/year	- 25%	- 10%
VOCs	0.15 tons/year	0.11 tons/year	- 27%	- 10%
Aldehydes	0.10 tons/tear	0.05 tons/year	- 50%	- 10%

Pollutant Emissions Reduction Performance Discussion

The addition of the belt press and the wash screen has produced a significant reduction in the equipment hours required to manage the aggregate washing process and the associated slurry waste by-product. Equipment hours associated with wash water and waste management are typically not as dependent on production volumes and were therefore not normalized. The new operational setup for the process has effectively removed one off-road haul truck and a dedicated excavator formerly required to handle and manage the waste materials. Equipment hours for the loaders and dozers actually increased during the period by a combined 331 hours. The off-road haul truck and excavator hours had a total reduction of 1,151 hours. The combined effective equipment hour reduction for the period was 820 hours. Similarly, the reduction in equipment operating hours translated to a significant reduction of air pollutant emissions with percentage reductions of targeted pollutants reduced from 16 to 50%. We see this portion of our performance goal to be achieved as future operations will remain consistent with 2010 operations and continuing environmental benefits will be retained from these facility improvements.

Improvement Project #2: Warm Mix Asphalt – West Haven and Cottonwood Asphalt Facilities

Targeted Performance Goal: Increase Warm Mix Asphalt production to 7.5 percent of total asphalt produced by the end of 2011.

2010 Results: Total tons of Warm Mix Asphalt (WMA) combined for both plant facilities for 2010 was just over 2,000 tons and well below our goal. Factors contributing to these results are attributed to warm mix asphalt being a new technology and customers being reluctant to use new products in a challenging economic market.

We are committed to this goal and will continue to promote and educate our customer base on the value of using WMA. Promotional efforts that will be completed during 2011 include product demonstrations, continued marketing efforts, test-strip pavement installation and continued engineering evaluation of placed materials. We believe that WMA is gaining momentum in the public sector, as well as, private due to demonstrations provided by Granite in the past and have already seen some equipment manufacturers holding their own WMA demonstrations.

Public Participation Activities

We continue to engage the public and our neighbors to educate them regarding process improvements and new technologies we have implemented to improve our business and environmental performance.

We sponsor an annual community open house at our Cottonwood facility. Our Clean Utah process improvement projects focusing on water conservation and reducing air pollutants were key topics of discussion and public interest.

During 2010 we also sponsored product demonstrations for warm mix asphalt including constructing a test strip location for consideration of using warm mix asphalt in the construction of the UTA Light Rail airport segment extension.

Clean Utah Project Plans for 2011

As described in this evaluation Granite plans to continue with the existing project plans through 2011. Water conservation evaluation at our Cottonwood facility will continue in an effort to better quantify water conservation and environmental benefit. Increasing production and use of Warm Mix Asphalt will also be carried over in effort of achieving our stated 2011 goal.