Mr. Robert Ballou, Chairman Watershed Improvement Review Board IDALS – Division of Soil Conservation 502 E 9<sup>th</sup> St, Des Moines, IA 50319

Re: Indian Creek Watershed, 1015-009, Final narrative report

Dear Mr Ballou,

The initial concept for this project was that stored rainwater from Creative Edge's two-acre roof could be used to cool the company's hydraulic pumps, thereby reducing the load on the City's storm and sanitary sewer systems.

Creative Edge was using approximately 40,000 gallons of city water per month to cool their equipment and that water was, in turn, put directly into the city's sanitary sewer system.

The engineer who helped configure the rainwater storage concept soon came to realize that this scenario was too expensive and not cost-efficient. The next concept was to use water for cooling purposes from a nearby pond that serves as a storm water filtration showcase for this community. Algae, spores and general filtration concerns coupled with possible equipment contamination doomed this second concept.

The final concept that proved to be the most cost-effective, within the parameters of the original projected budget, was two-fold: (1) almost one million gallons of annual roof rainwater has all been re-directed to the above-mentioned storm water pond located to the south of the Creative Edge building rather than going into the city's storm water sewer—system, and (2) three commercial-grade chillers were purchased to cool the multiple cutting machine's water thereby saving roughly one-half million gallons of water from being (a) used and (b) disposed of via the city's sanitary sewer system.

Indian Creek Watershed Project No: 1015-009 February 1, 2012-June 30, 2013

## **Financial Accountability**

## Watershed Improvement Funds

Grant Agreement Budget Line Item	Total Funds Approved	Total Funds Approved – Amended	Total Funds Expended	Available Funds
Engineering	\$3,800	\$1,200	\$1,072	+\$128
Interior Equipment and Construction	\$24,100	\$29,400	\$27,907	+ \$1,493
Exterior Equipment and Construction	\$5,100	\$2,400	\$4,021	-\$1,621
Totals	\$33,000	\$33,000	\$33,000	\$0
Difference				\$0

## **Total Project Funding**

Funding Source	Cash	Cash	In-Kind Contributions	In-Kind Contributions	Total	Total
	Approved Application Budget	Actual	Approved Application Budget	Actual	Approved Application Budget	Actual
WIRB	\$33,000	\$33,000	\$0	\$0	\$33,000	\$33,000
Creative Edge Mastershop	\$22,000	\$42,456		\$7,500	\$22,000	\$49,956
Totals	\$55,000	\$75,456	\$0	\$7,500	\$55,000	\$82,956

Utility Analysis- (Fiscal Year: 2013)

8/1/2013

Report Date:

	60 PAYMENTS	MONTHLY	MONTHLY	MONTHLY				MONTHLY BILL	YBILL				MONTHLY
	mid-am leasing	ALLIANT	ALLIANT	ALLIANT	AVE.	AVE.	AVE.	FAIRFIELD	ELD				SOUTH END
	lighting	ELECTRIC	ELECTRIC	GAS	this	last	Jast	WATER	ER	h20 \$\$	sewer \$\$\$	H20	ELECTRIC
	\$4,000.00	894-1919-01	CREDITS	025-1919-06	month	month	year	032-042200-00	200-00			readings	025-1921-02
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<u>&gt;</u>	1,400.00	4,558.98	91.0%	321.32	54	40	61	4/15-5/17	2,499.15	970.50	1,362.35	27,500	521.28
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Totals	9,800.00	23,961.54	119.2%	14,412.20	35	32	4		16,438.21	6,365.85	8,980.15	181,450.00	3,047.43
													\$67.659.38

Creative Edge Mastershp estimates a savings of approximately \$32,000 in FY14, commencing 7/1/13.

Based on a reduction of 35,000 gallons per month of water and sewage use.

The City of Fairfield is raising rates, starting 7/1/13, over the next 5 yrs to finance a mandated new Storm Water sewer system.