



## Grant All-Detail Report 2012 - Clean Water Assistance

**Grant Title** - 2012 - Clean Water Assistance - Clearwater River WD (WSHED)

**Grant ID** - C13-4560

**Organization** - Clearwater River WD

<b>Grant Awarded Amount</b>	<b>\$738,750.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$184,687.50	<b>Grant End Date</b>	1/1/2020
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Dennis Loewen

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$738,750.00	\$666,081.78	\$72,668.22
Total Match Amount	\$246,250.00	\$223,732.26	\$22,517.74
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$985,000.00</b>	<b>\$889,814.04</b>	<b>\$95,185.96</b>

\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
CWF Kimball Stormwater PH II - Grant Administration/Management	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)	\$19,690.00	\$13,443.83	9/30/2015	N
CWF Kimball Stormwater PH II - Grant Administration/Management	Administration /Coordination	Local Fund	Local Match Kimball PH II CRWD - A&M, Land/Easement Purchase, Engineering, Construction	\$5,000.00	\$5,000.00	11/14/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
CWF Kimball Stormwater PH II - Land & Water Project	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)	\$444,935.00	\$388,220.24	9/4/2015	N
CWF Kimball Stormwater PH II - Land & Water Project	Urban Stormwater Management Practices	Local Fund	Local Match - City of Kimball Street Improvements Project	\$80,000.00	\$80,000.00	11/26/2013	Y
CWF Kimball Stormwater PH II - Land & Water Project	Urban Stormwater Management Practices	Local Fund	Local Match Kimball PH II CRWD - A&M, Land/Easement Purchase, Engineering, Construction	\$148,750.00	\$126,232.26	9/4/2015	Y
CWF Kimball Stormwater PH II - Project Development	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)	\$59,125.00	\$54,075.00	5/7/2013	N
CWF Kimball Stormwater PH II - Technical & Engineering	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)	\$215,000.00	\$210,342.71	9/30/2015	N
CWF Kimball Stormwater PH II - Technical & Engineering	Urban Stormwater Management Practices	Local Fund	Local Match Kimball PH II CRWD - A&M, Land/Easement Purchase, Engineering, Construction	\$12,500.00	\$12,500.00	9/30/2015	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
155M - Storm Water Retention Basins	2	2	1 AC	1 AC
587 - Structure for Water Control	1	3	725 LINEAR FEET	725 LINEAR FEET
412 - Grassed Waterway and Swales	1	1	0.15 AC	0.15 AC
468 - Lined Waterway or Outlet	1	1	0.01 AC	0.01 AC

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
587 - Structure for Water Control	1	2	1 COUNT	1 COUNT
587 - Structure for Water Control	1	2	0.22 AC	0.22 AC
350 - Sediment Basin	1	1	0.1 AC	0.1 AC
587 - Structure for Water Control	1	1	450 LINEAR FEET	450 LINEAR FEET

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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### Final Indicators Summary

Indicator Name	Total Value	Unit
<b>SEDIMENT (TSS)</b>	1.13	TONS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	1,175.00	LBS/YR

### Grant Activity

Grant Activity - CWF Kimball Stormwater PH II - Grant Administration/Management			
<b>Description</b>	Administration and Management of the project: "Clearwater Lake Chain TMDL Implementation: Kimball Stormwater Phase II." This initiative includes: tracking costs, filing required reports, updating eLink, providing oversight and guidance to all project participants, etc.  Initiative will be performed by Administrator Dennis Loewen.		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>	1-Mar-12	<b>End Date</b>	30-Sep-15
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	Administration and Management of the project, "Clearwater Lake Chain TMDL Implementation: Kimball Stormwater Phase II," was completed under budget and on-time.		

**Grant Activity - CWF Kimball Stormwater PH II - Land & Water Project**

<b>Description</b>	Labor and materials to install a series of BMPs to reduce phosphorus loads from stormwater to Lake Betsy (and subsequently the rest of the Clearwater River Chain of Lakes) and protect and improve nearby Willow Creek, a trout stream, from temperature and water quality impacts.		
<b>Category</b>	URBAN STORMWATER MANAGEMENT PRACTICES		
<b>Start Date</b>	1-May-14	<b>End Date</b>	30-Sep-15
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	<ol style="list-style-type: none"> <li>1) Up-sizing of grit chambers as part of Kimball's street improvement project are complete.</li> <li>2) City of Kimball Street Improvements are complete.</li> <li>3) Construction phase has begun.</li> <li>4) Hendricks East Stormwater Basin w/ pretreatment cell and filter is complete.</li> <li>5) Hendricks West Wetland Restoration w/ pretreatment cell and filter is complete.</li> <li>5) Work is underway on the stormwater outlet on WINGO property.</li> <li>6) Vegetated swale behind Hendricks Sand &amp; Gravel complete.</li> <li>7) Swale to route stormwater to vegetated area and away from Class 5 parking lot complete.</li> <li>8) Work is underway to improve stormwater treatment in the area known as Willow Creek Park.</li> <li>9) Storm sewer extension is complete.</li> <li>10) Stormwater outlet on WINGO property is complete; WCA restoration order as part of this work item is complete.</li> <li>11) Major construction items are complete.</li> <li>12) SAFL Baffle / grit chamber installed in Willow Creek Park.</li> <li>13) Wear coat paving complete.</li> <li>14) Two alternative sub-projects installed: Arnold Implement Yard and Magnus Johnson Street South.</li> <li>15) Improvements to reuse basin's irrigation in Willow Creek Park completed.</li> <li>16) Punch list items completed.</li> <li>17) Pumping of installed grit chambers completed.</li> <li>18) All remaining land &amp; water items completed; final pay application submitted and paid; Land &amp; Water category completed.</li> </ol>		

Activity Action - SAFL Baffle Grit Chamber			
Practice	587 - Structure for Water Control	Count of Activities	1
Description	Installation of St. Anthony Falls Laboratory (SAFL) Baffle and Grit Chamber combination near outfall to Willow Creek Park and existing rain garden area to control amount of sediment runoff from city.		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	

Final Indicator for SAFL Baffle Grit Chamber			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	20
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Willow Creek; Lake Betsy; Clearwater River Chain		

Activity Action - Grade Railroad Swale			
Practice	587 - Structure for Water Control	Count of Activities	1
Description	Regrade a swale on railroad property to alleviate flooding of lot to the south, as well as provide some treatment. This swale must be covered with crushed aggregate base to allow for vehicle travel, per agreement with CP Rail.		
Proposed Size / Units	0.22 AC	Lifespan	30 Years
Actual Size/Units	0.22 AC	Installed Date	

Final Indicator for Grade Railroad Swale			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	69
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Willow Creek; Lake Betsy; Clearwater River Chain		

Activity Action - Emergency Overflow Swale			
Practice	412 - Grassed Waterway and Swales	Count of Activities	1
Description	Re-grading of overflow swale to allow more treatment in upland wetland, as well as assisting with flooding issues.		
Proposed Size / Units	0.15 AC	Lifespan	30 Years
Actual Size/Units	0.15 AC	Installed Date	

Final Indicator for Emergency Overflow Swale			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	300
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Willow Creek; Lake Betsy; Clearwater River Chain		

Activity Action - Stormwater Storage & Treatment Sites			
Practice	155M - Storm Water Retention Basins	Count of Activities	2
Description	Expansion & improvement of existing stormwater storage sites, addition of filtration elements (ex. berms), and reduction of peak stormwater flows to promote infiltration.		
Proposed Size / Units	1.00 AC	Lifespan	30 Years
Actual Size/Units	1.00 AC	Installed Date	

Final Indicator for Stormwater Storage & Treatment Sites			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	786
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Willow Creek; Lake Betsy; Clearwater River Chain		

Activity Action - Storm sewer extension w/ grit chambers installation			
Practice	587 - Structure for Water Control	Count of Activities	1
Description	Extend storm sewer to capture more water for treatment as well as reducing impact from storm events on Kimball Stormwater Ph I project.  Phosphorus reduction numbers from this activity are included as part of the Stormwater Storage & Treatment Sites activities' phosphorus reduction number.		
Proposed Size / Units	725.00 LINEAR FEET	Lifespan	30 Years
Actual Size/Units	725.00 LINEAR FEET	Installed Date	

Activity Action - Reconstruct stormwater outlet			
Practice	587 - Structure for Water Control	Count of Activities	1
Description	Reconstruct stormwater outlet from main treatment area by installing HDPE pipe and placing HDPE pipe inside existing RCP culvert, along with flared end w/ rip rap. Such action protects wetland while maintained necessary drainage and elevations.		
Proposed Size / Units	450.00 LINEAR FEET	Lifespan	30 Years
Actual Size/Units	450.00 LINEAR FEET	Installed Date	

Activity Action - Sediment Forebay - Arnold Implement Yard			
Practice	350 - Sediment Basin	Count of Activities	1
Description	A sediment forebay to lessen the amount of suspended solids transported to Willow Creek via runoff from Arnolds' Implement Yard		
Proposed Size / Units	0.10 AC	Lifespan	30 Years
Actual Size/Units	0.10 AC	Installed Date	

Final Indicator for Sediment Forebay - Arnold Implement Yard			
Indicator Name	SEDIMENT (TSS)	Value	1.125
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Literature Value
Waterbody	Willow Creek; Lake Betsy; Clearwater River Chain		

Activity Action - Magnus Johnson Street Outlet Stabilization			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Placed angular rip-rap to stabilize the outlet of city stormwater works at the end of Magnus Johnson Street.		
Proposed Size / Units	0.01 AC	Lifespan	In Perpetuity
Actual Size/Units	0.01 AC	Installed Date	

## Grant Activity - CWF Kimball Stormwater PH II - Project Development

<b>Description</b>	Project development focuses on four things: 1) Merging related elements of City of Kimball's Street Improvement Project into the CWF project 2) Incorporating any assistance from Stearns County SWCD 3) Contact with prospective landowner(s) 4) Complete majority of project concept and schedule review by technical advisory committee before further work is conducted.		
<b>Category</b>	URBAN STORMWATER MANAGEMENT PRACTICES		
<b>Start Date</b>	1-Mar-12	<b>End Date</b>	31-Dec-13
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	1) Please see attached documents (project status memo, cost/benefit spreadsheet, and concept map) for a more detailed update on where project development is currently. Easement acquisitions are in progress, and final design is ready to begin. 2) Elements have been merged. City of Kimball has begun construction of their street improvement project. 3) Currently, assistance from Stearns County SWCD looks to be in the form of construction management. As such, we have moved the \$5,000 match from Stearns County from technical/engineering to land & water project. 4) After contact with the various potential land owners (3 private, Canadian Pacific Railroad, and Kimball School District), we've narrowed in the focus. Again, see the attach documents for further information. 5) Majority of project concept has been completed, and a technical advisory committee meeting is being scheduled. 6) Project concept has been accepted by technical advisory committee, and wetland impacts have been accounted for through Wetland Bank Credits.  Final Engineering Design has been completed. See Technical & Engineering item.		



## Grant Activity - CWF Kimball Stormwater PH II - Technical & Engineering

<b>Description</b>	<p>Once majority concept is approved by technical advisory committee and CRWD Board of Managers, work will begin on final design. The engineered plans &amp; specifications will be uploaded to allow for review.</p> <p>Construction engineering oversight services will be provided under this item once construction is underway.</p> <p>Work will be completed primarily by Wenck Associates, Inc under contract with the CRWD. They are known in Minnesota for their excellence in water resource management, and their staff provides depth of experience and credentials necessary to complete this project. CRWD staff will provide assistance.</p>		
<b>Category</b>	URBAN STORMWATER MANAGEMENT PRACTICES		
<b>Start Date</b>	1-May-13	<b>End Date</b>	30-Sep-15
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	<ol style="list-style-type: none"> <li>1) Concept has been approved by technical advisory committee.</li> <li>2) Final engineering design has been completed. See attachment titled "Project Manual" for more information.</li> <li>3) Permitting is almost complete; waiting on Army Corp of Engineers (ACOE) permit.</li> <li>4) Bidding has been complete. Bid being held pending receipt of permit from ACOE.</li> <li>5) ACOE permit has been received.</li> <li>6) Construction is underway. See "Land &amp; Water Project."</li> <li>7) Construction engineering oversight, performed by Wenck Associates, Inc., is complete.</li> <li>8) Post-construction engineering work (project sign-off, O&amp;M plan development, remaining project closeout items) is complete. Technical &amp; Engineering category is completed.</li> </ol>		

## Grant Attachments

Document Name	Document Type	Description
<b>40% payment request approval</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/31/2014
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/02/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/22/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/10/2014

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/10/2014
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/10/2014
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/11/2014
<b>Amendment</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>CAD Drawing - Arnold Implement Yard</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>CAD Drawing - Magnus Johnson Street South</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Concept Map - July 2013</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Concept Map 1-31-2013.pdf</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Concept Map 1-31-2013.pdf</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Cost Beneift Comparison_1-31-13.pdf</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Cost Beneift Comparison_1-31-13.pdf</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Kimball Stormwater Phases I&amp;II O&amp;M Plan</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Memo - Implement Yard, City of Kimball Stormwater Pond</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Project Manual - Kimball PH II Stormwater</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>Wenck Memo- Kimball PH II Project Update 013113.pdf</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>grant_app_general-added.rpt</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)
<b>grant_app_general.rpt</b>	Grant	2012 - Clean Water Assistance - Clearwater River WD (WSHED)