

2008 Project Inspection Report

Prepared for
**Clearwater River
Watershed
District**

Wenck File # 0002-119



Wenck

May 2008



Wenck Associates, Inc.
1800 Pioneer Creek Ctr.
P.O. Box 249
Maple Plain, MN 55359-0249

(763) 479-4200
Fax (763) 479-4242
E-mail: wenckmp@wenck.com

May 14, 2008

Mr. Marvin Brunsell, Chairperson
Clearwater River Watershed District
PO Box 481
Annandale, MN 55302

Re: 2008 Project Inspection Report
Wenck File # 0002-119

Dear Mr. Brunsell:

This 2008 Project Inspection Report was prepared for the Clearwater River Watershed District as part of the operation and maintenance activities for the District's Projects.

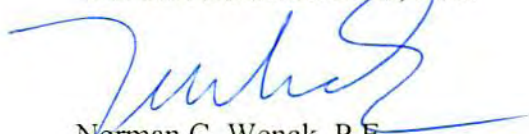
The District's projects were inspected by Merle Anderson and Wes Boll in April 2008. The attached Table 1 contains the inspection results and our recommendations of maintenance activities with estimated costs. The figures show where maintenance activities are required and the photographs show existing conditions for selected projects. Repair work at the Watkins Wetland Treatment System, Kingston Wetland Treatment System, Annandale Wetland Treatment System, and the Highway 55 Fish Trap are recommended for this year.

Our recommendation is to solicit three quotes and complete the required maintenance work this summer or fall as weather permits.

The estimated contractor costs are \$16,000 for lake restoration projects; \$3,000 for Hidden River Septic Tank Pumping; and 100 hours and \$1,000 for equipment rental and supplies for Kevin Wittrock to perform minor maintenance items.

Sincerely,

WENCK ASSOCIATES, INC.



Norman C. Wenck, P.E.
Chairman

cc: CRWD Board of Managers
Merle Anderson, Administrator

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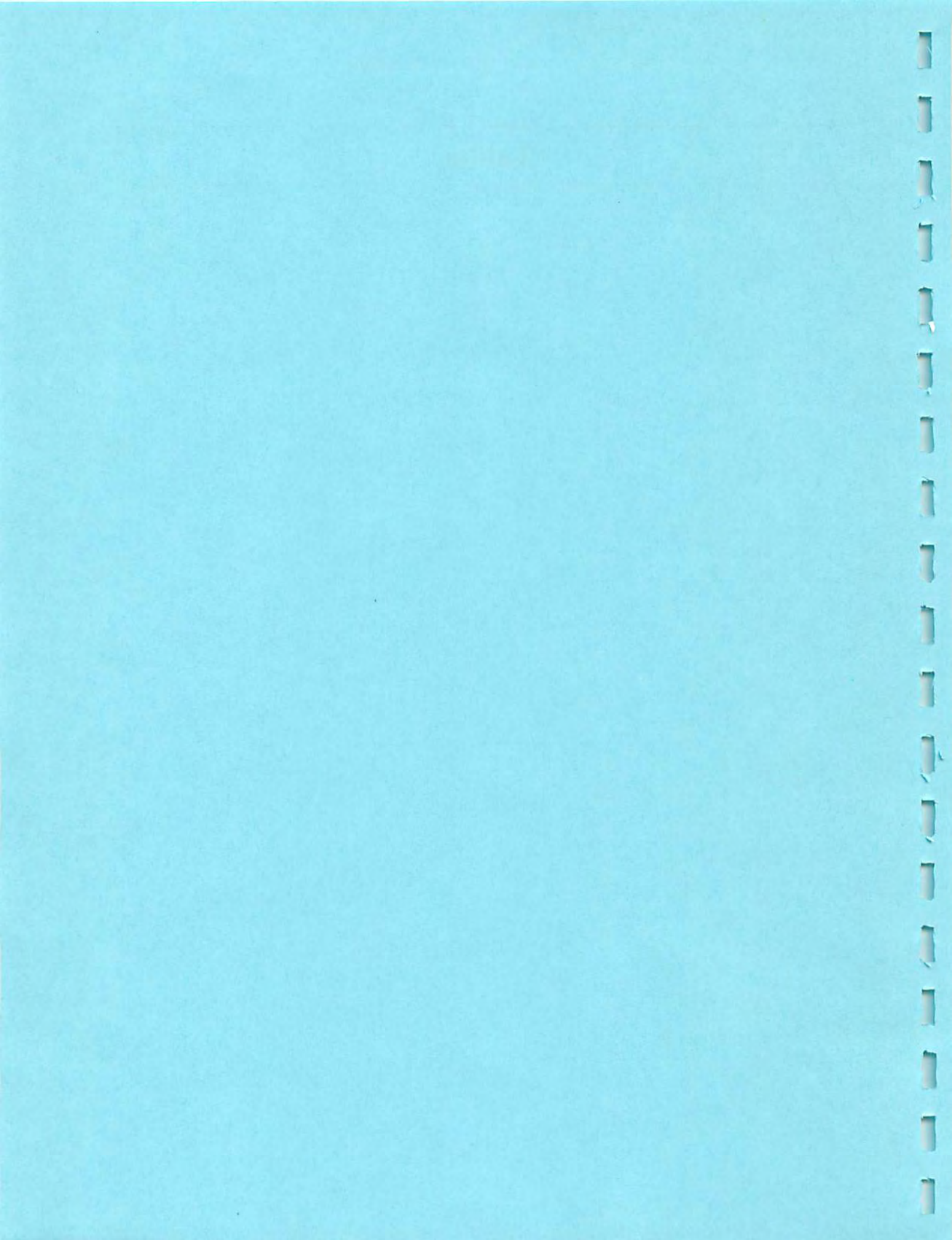


Table 1
Clearwater River Watershed District
Annual Project Inspection
April 2008

Project	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Upper Watkins Wetland Isolation Project (North) (see Figure 1)				
1. Summer weed control	✓			Kevin- 8 hrs + \$300 for equipment
Watkins Wetland Treatment System (South) (see Figures 2 and 3)				
1. Installation of riprap overflow berms.		✓		\$8,000
2. East side (Channel B) in good condition			✓	
3. Tile inlet and outlet in good condition.			✓	
4. Most ports in good condition.			✓	
Clear Lake Inlet V-Notch (North)				
1. Outlet structure in good condition.			✓	
Nistler Sedimentation Basin (see Photo 1).				
1. Sedimentation basin in good condition.			✓	
2. Check for curly leaf pondweed.	✓			Completed in April. No curly leaf pondweed found in basin.
Kingston Wetland Treatment System (see Figures 4 & 5 and Photos 2-4)				
1. Remove sediment blocking diversion channel in two areas near tributary inlets.		✓		Approximately 450 cubic yards of sediment removal from channel. Kevin 16 hours + \$5,000 Contractor Cost
2. Overflow structure repaired in 2007 is in good condition.			✓	
3. Remove vegetation and debris from some ports. Most ports in good condition.		✓		Kevin - 16 hrs + \$100 for equipment
Highway 55 Fish Trap				
1. Place rock to level bottom to aid in fish netting.		✓		\$3,000

**Table 1
Clearwater River Watershed District
Annual Project Inspection
April 2008**

Project	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Aerator Buildings				
1. Lake Augusta-Good condition, no maintenance needed.			✓	
2. Lake Marie- Good condition, no maintenance needed.			✓	
School Section Lake Outlet Project.				
1. Outlet structure is blocked.			✓	\$1,000-Landowner will contact CRWD when lake level rises so that outlet can be cleared.
Rest-a-While Wastewater Treatment System				
1. Remove trees growing in drainfield.		✓		Kevin - 8 Hours
2. Repair erosion on driveway to treatment area.		✓		Kevin - 8 Hours
Hidden River Wastewater Treatment System				
1. Summer weed control and ditch mowing.	✓			Kevin- 12 hrs
2. Sand filter and drain field in good condition.			✓	
3. Pump 13 septic tanks as required per schedule.	✓			Contract Pumper: Estimated \$3,000
Clearwater Harbor Wastewater Treatment System				
1. Summer weed control	✓			Kevin- 12 hrs
2. Drain field and sand filter in good condition.			✓	
Annandale Wetland Treatment System (see Figure 6 and Photos 5-6).				
1. Vegetation needs to be removed from channel near diversion structure.	✓			Kevin - 16 hrs + \$300 for equipment
2. Beaver dam that is blocking south channel needs to be removed.	✓			Kevin - 16 hrs + \$300 for equipment

Table 1
Clearwater River Watershed District
Annual Project Inspection
April 2008

Project	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Pleasant Lake Outlet Project				
1. No Maintenance Needed			✓	
Lake Augusta Erosion Control Project (see Figure 7 and Photos 7-9).				
1. Maintenance and repairs to completed in 2007.			✓	
Norton Ave Sediment Basin				
1. Erosion blanket in place.			✓	
Eddie Schultz Buffer				
1. No maintenance needed.			✓	
* Wandering Ponds Wastewater System				
1. Rely on Miller report.			✓	
Henshaw Lake Outlet				
1. Outlet in good condition.			✓	
2. Fish barrier operating properly.			✓	
Swartout Lake Fish Barrier				
1. Fish barrier in good condition and operating properly.			✓	
Illsley Ave Fish Barrier				
1. Fish barrier in good condition and operating properly.			✓	
Segner Pond				
1. Construction to be completed in Summer 2008.			✓	

Table 2
SEWER SYSTEM MAINTENANCE

Hidden River Wastewater System

1. Individual septic tank pump out , based on sludge and scum depth, checked every two years.
2. Check inspection riser on drain field for broken or cracked pipes and caps.
3. Flush distribution lines in the sand filter.
4. Open control panel and check pump run lights at lift stations and treatment site.
5. Pull out pump effluent filters in dosing tank and clean
6. Check vegetation at treatment site, mow grass, and remove unwanted trees.
7. Open all manholes in the collection lines and look for signs of debris or plugging.

Rest-a-While Wastewater Treatment System

1. Individual septic tank pump out, based on sludge and scum depth, checked every two years.
2. Check inspection riser on drain field for broken or cracked pipes and caps.
3. Check aerator for proper operation.
4. Open control panel and check pump run lights at lift stations and treatment site.
5. Pull out pump effluent filters in dosing tank and clean.
6. Check vegetation at treatment site, mow grass, and remove unwanted trees.
7. Open all manholes in the collection lines and look for signs of debris or plugging.
8. Check access road for erosion. Crushed rock may need to be applied.
9. Check sediment basins for depth to sediment and erosion.

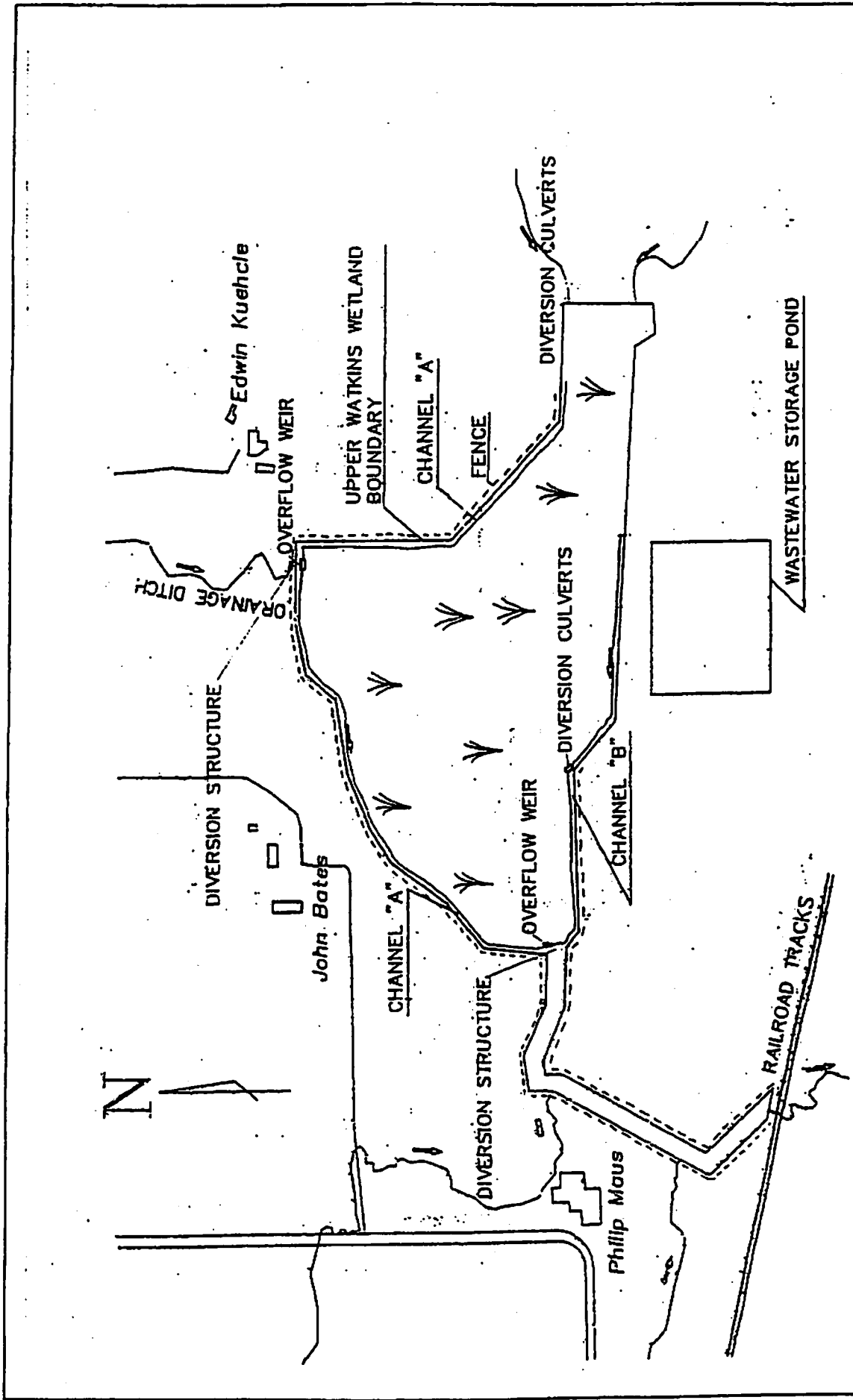
Clearwater Harbor Wastewater Treatment System

1. Check community septic tank monthly. Pump as needed.
2. Check inspection riser on drain field for broken or cracked pipes and caps.
3. Flush distribution lines in the sand filter.
4. Open control panel and check pump run lights at lift stations and treatment site.
5. Pull out pump effluent filters in dosing tank and clean.
6. Check vegetation at treatment site, mow grass, and remove unwanted trees.
7. Open all manholes in the collection lines and look for signs of debris plugging.

**Table 3
Hidden River Pumping Schedule**

Parcel ID #	Address	Date Tank Installed	Permit #	Block	Lot	2003	2004	2005	2006	2007	2008	2009	Notes:	Name
19.10722.560	14656 Hidden River Dr.	8/1/2003	18-18458	5	2			05		07		09		Christopher & Marie Schneider
19.10722.565	14687 Hidden River Dr.	No Records Found		OUTLOT A										
19.10722.558	14688 Hidden River Dr.	9/23/2004	19-19331	5	1				06				Needs riser? Can't find.	Michael Merten
19.10722.556	14714 Hidden River Dr.	No Records Found		4	5									
19.10722.554	14736 Hidden River Dr.	9/12/2003	19-18397	4	4			05		07		09		Kevin & Lynn Kottke
19.10722.552	14758 Hidden River Dr.	10/28/2005	19-20191	4	3						08			Travis & Mary Jenniges
19.10722.550	14782 Hidden River Dr.	No Records Found		4	2									
19.10722.520	14791 Hidden River Dr.	11/5/2003	19-18717	2	7				06		08			Douglas & Colleen Anderson
19.10722.548	14804 Hidden River Dr.	9/9/2003	19-18580	4	1				06		08			Scott A & Jodi M Wroblewski
19.10722.518	14825 Hidden River Dr.	10/30/2001	19-17222	2	6		04		06		08			Eric J & Tami Kolehmainen
19.10722.546	14826 Hidden River Dr.	10/27/2005	19-20237	3	13						08			Jeffrey S & Theresa A. Gendreau
19.10722.516	14683 Hidden River Dr.	10/7/2002	19-17999	2	5			05		07		09	Note: Tax records show address as 14863 not 14683.	Jason & Kelly Buboltz
19.10722.542	14872 Hidden River Dr.	11/16/2004	19-19513	3	10				06		08			Russ & Jeanne E Pearson
19.10722.538	14916 Hidden River Dr.	No Records Found		3	9									
19.10722.514	14917 Hidden River Dr.	12/15/2000	19-16679	2	4	03		05		07		09		James E Sunderland
19.10722.536	14938 Hidden River Dr.	8/3/2005	19-20008	3	8						08			Adam L Anderson
19.10722.534	14962 Hidden River Dr.	No Records Found		3	7									
19.10722.532	14984 Hidden River Dr.	No Records Found		3	6									
19.10722.512	15015 Hidden River Dr.	No Records Found		2	3									
19.10722.530	15016 Hidden River Dr.	No Records Found		3	5									
19.10722.528	15028 Hidden River Dr.	8/19/2002	19-17670	3	4			05		07		09		Jeremy & Gena Rosnow
19.10722.526	15042 Hidden River Dr.	9/25/2003	19-18739	3	3				06		08			Shane & Tabitha Allen
19.10722.510	15057 Hidden River Dr.	9/10/2003	19-18744	2	2				06		08			Gregory & Jenny Lyn T Kappes
19.10722.524	15074 Hidden River Dr.	12/21/2001	19-17522	3	2		04		06		08		Needs 16" riser per Bernie Miller	David A & Patricia A Klug
19.10722.508	15085 Hidden River Dr.	10/10/2003	19-18676	2	1				06		08			Joseph J & Melissa Kaz
19.10722.522	15096 Hidden River Dr.	11/19/2002	19-18169	3	1			05		07		09		Kirk & Grentchen Langebehn
19.10722.506	15112 Hidden River Dr.	8/10/2005	19-19439	1	4						08			Mark Laudenschach
19.10722.504	15144 Hidden River Dr.	5/20/2002	19-17451	1	3			05		07		09		Ryan & Jessica Ganyo
19.10722.502	15176 Hidden River Dr.	4/3/2001	19-16793	1	2	03		05		07		09	Needs riser-ASAP authorized to provide up to \$300	Joseph & Jennifer Esseff
19.10722.500	15198 Hidden River Dr.	10/19/2001	19-17223	1	1		04		06		08			Timothy N & Wendy J Haag

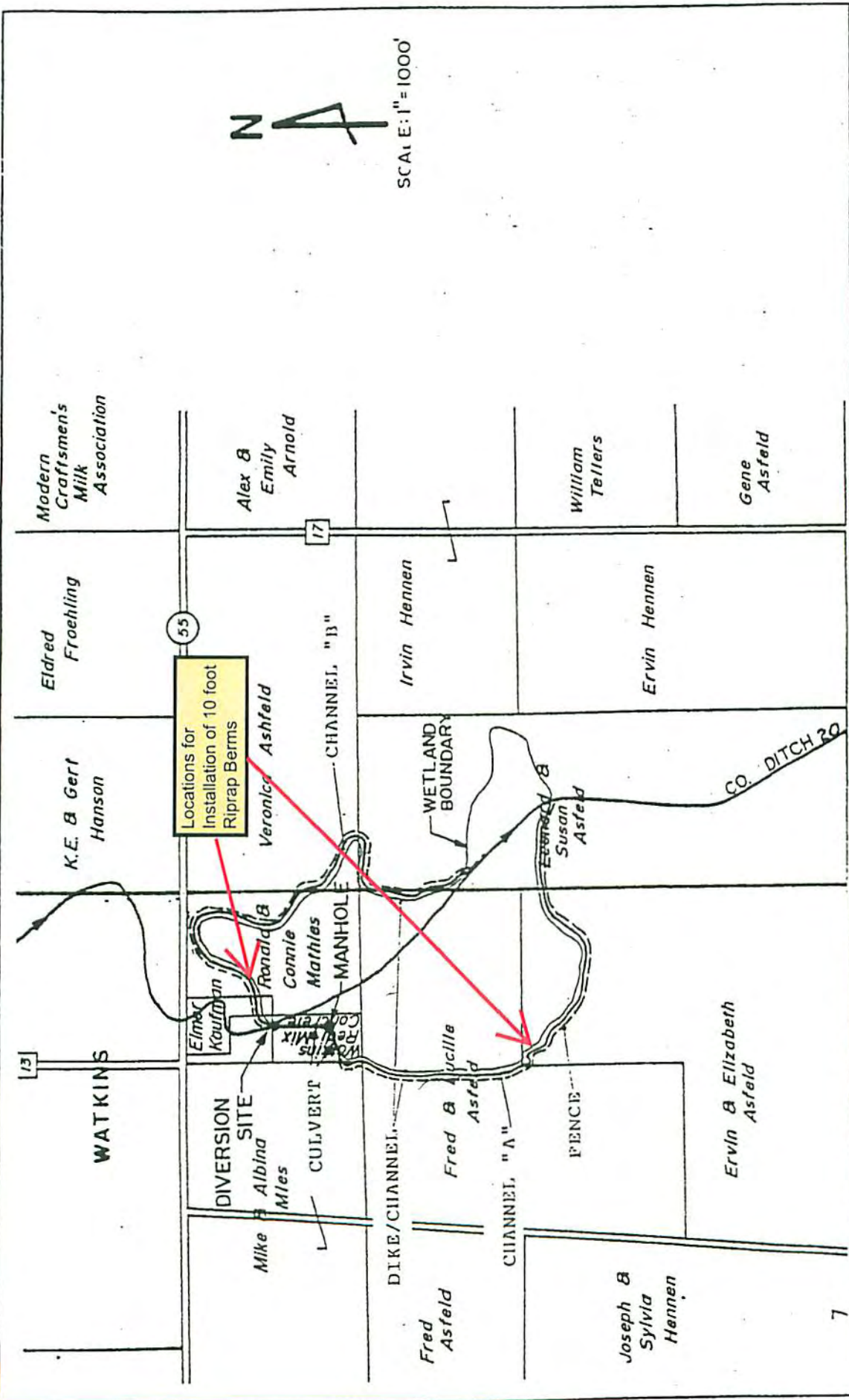
Figures



CLEARWATER RIVER WATERSHED DISTRICT
 Upper Watkins Wetland Isolation Project

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 Wenck Associates, Inc.
 1800 Pioneer Creek Center
 Maple Ridge, MN 55359
 Environmental Engineers

Figure 1



N
SCALE: 1" = 1000'

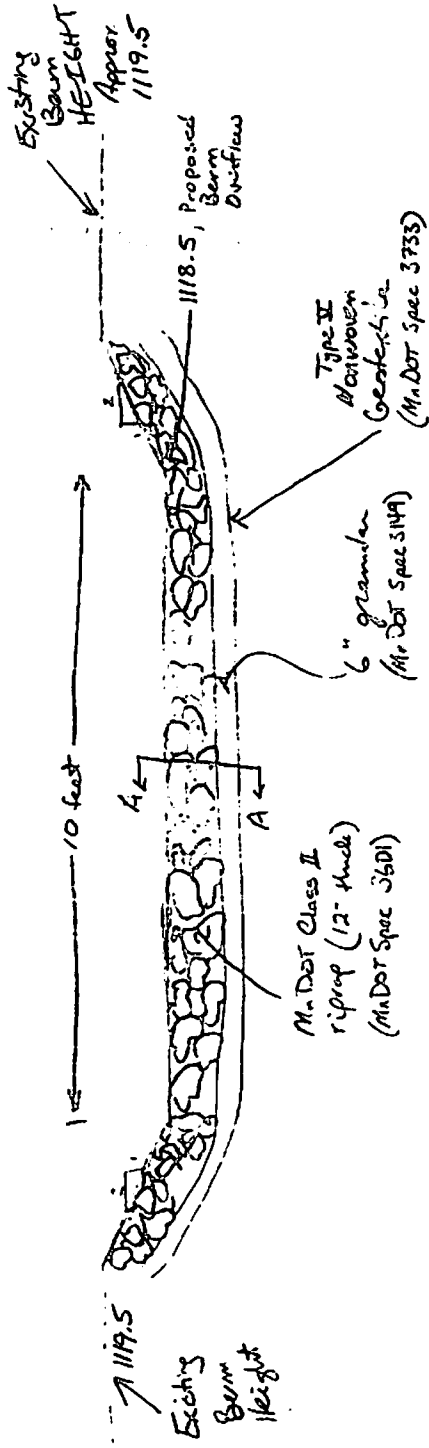
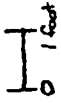
Locations for Installation of 10 foot Riprap Berms

Wenck
 Wenck Associates, Inc.
 1800 Pioneer Creek Center
 Maple Plain, WI 55359
 Environmental Engineers

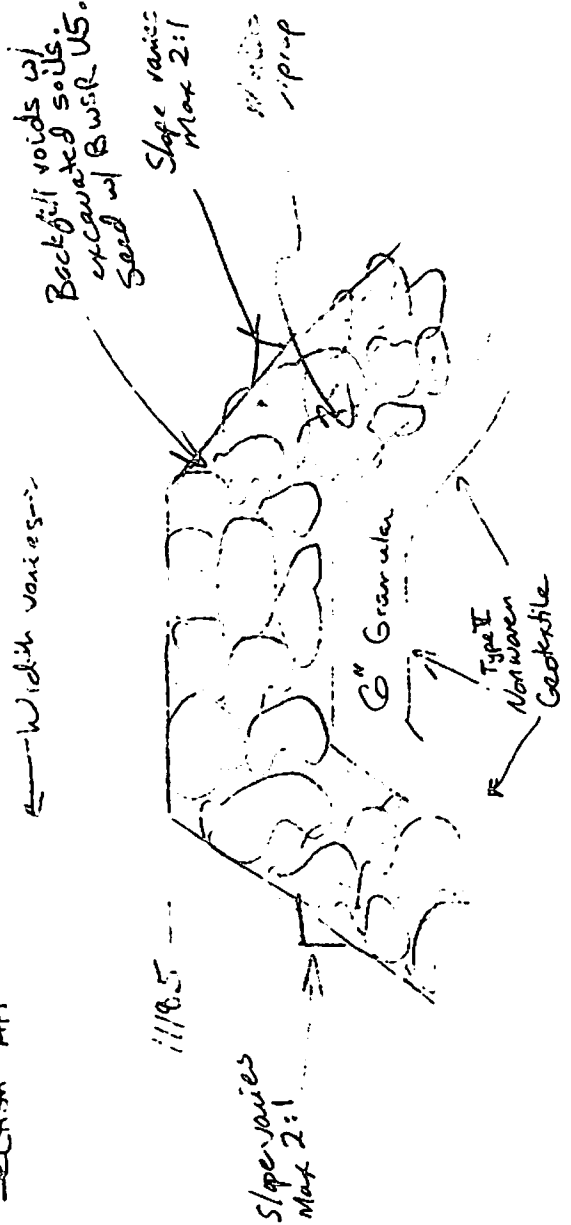
CLEARWATER RIVER WATERSHED DISTRICT
 Watkins Wetland Treatment Project

Figure 2

Scale



Section AA



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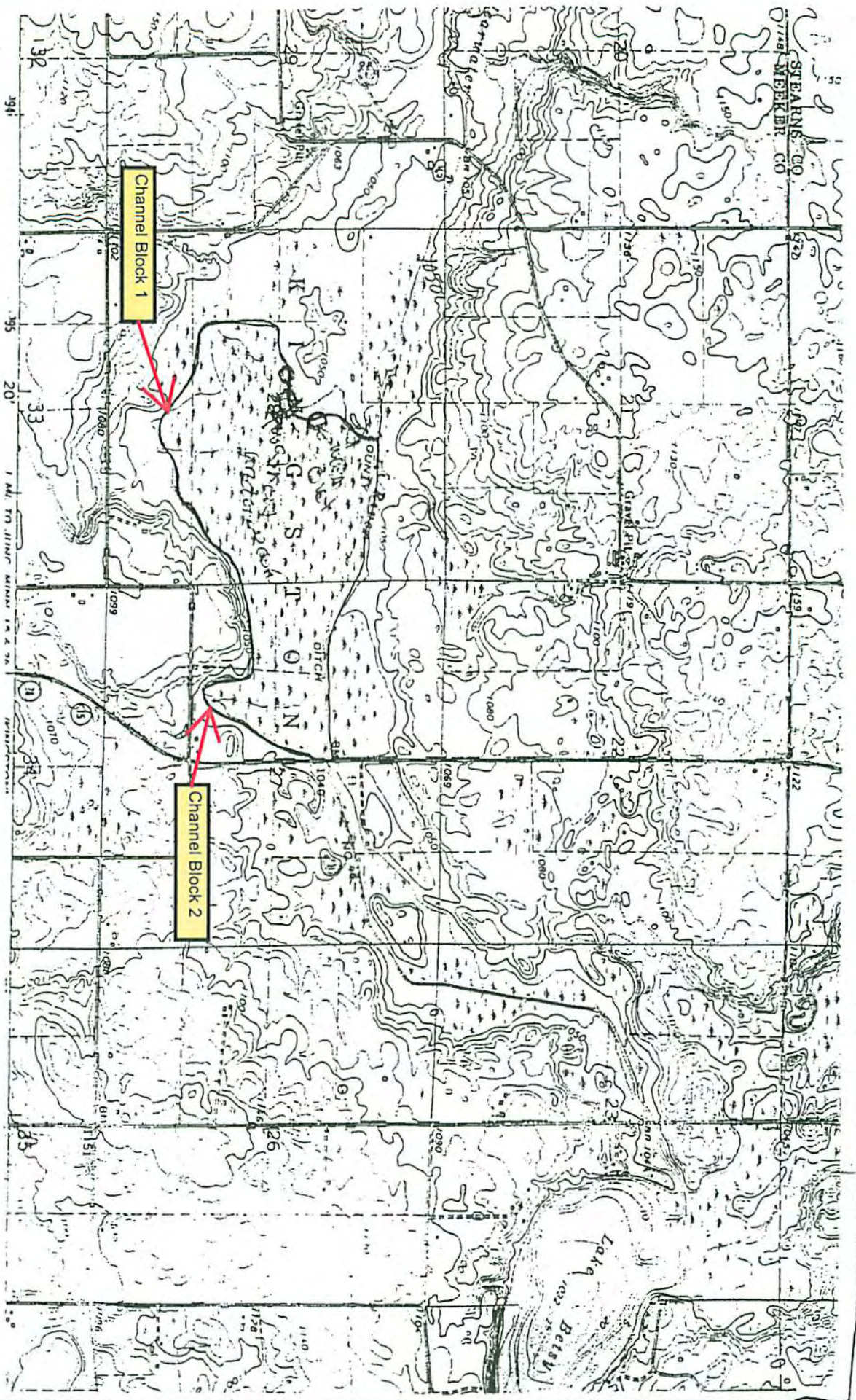
CLEARWATER RIVER WATERSHED DISTRICT

Watkins Wetland Treatment Project-Proposed Overflow Berm Design

Wenck
Wenck Associates, Inc. 1800 Pioneer Creek Center
Environmental Engineers Maple Plain, MN 55559-0429

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Figure 3



CLEARWATER RIVER WATERSHED DISTRICT

Kingston Wetland Treatment Project



Figure 4



Aerial Photo (LMIC, 2006)

750 375 0 750 Feet

Map: L:\0002\0002-119\Kingston Wetland.mxd
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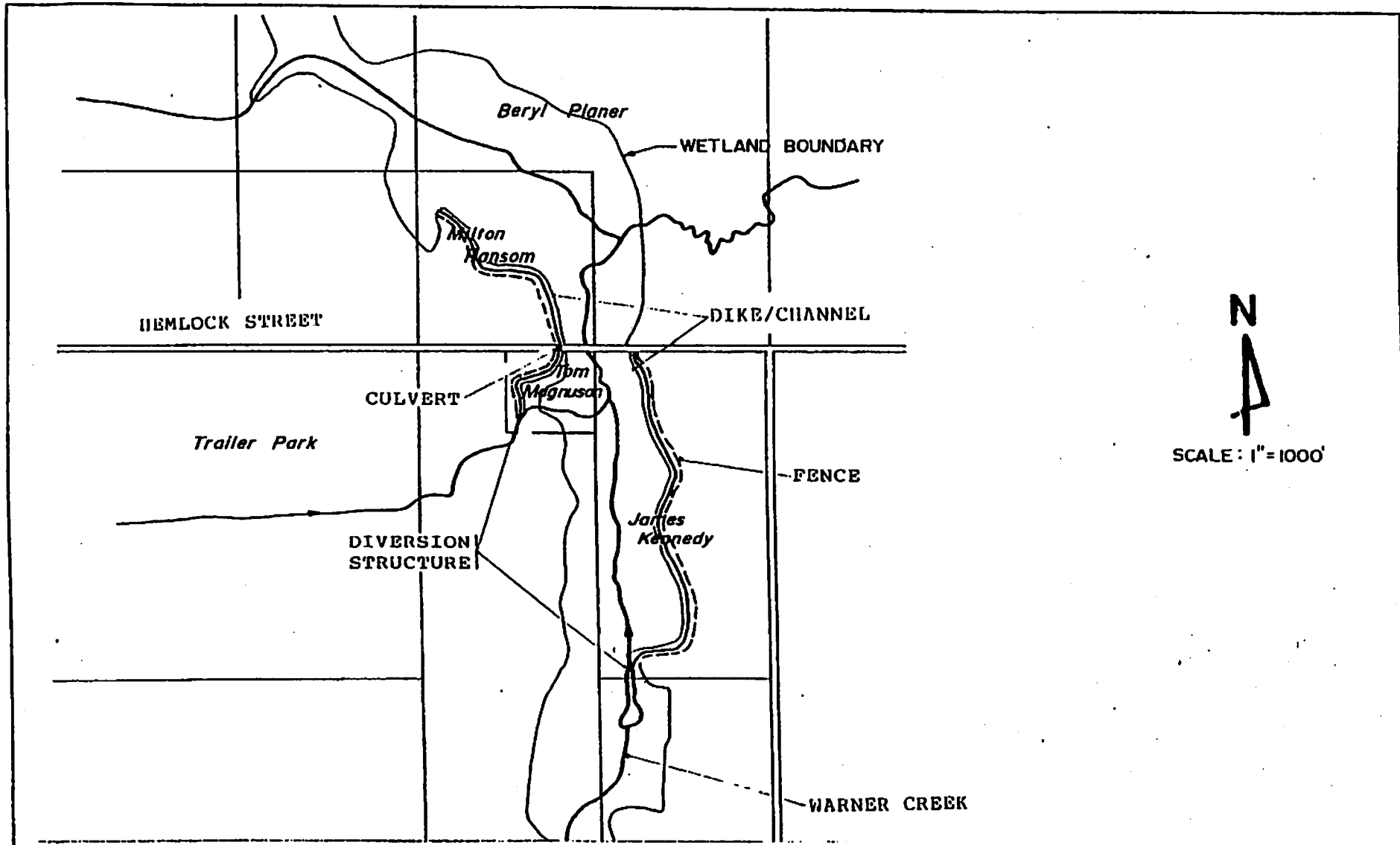
CLEARWATER RIVER WATERSHED DISTRICT
Kingston Wetland Treatment System



Wenck Associates, Inc. 1800 Pioneer Creek Center
Environmental Engineers Maple Plain, MN 55359-0429

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Figure 5



CLEARWATER RIVER WATERSHED DISTRICT

Annandale Wetland Treatment Project


Wenck
 Wenck Associates, Inc. Environmental Engineers
 1800 Pioneer Creek Center
 Maple Plain, MN 55359

Figure 6

Photographs

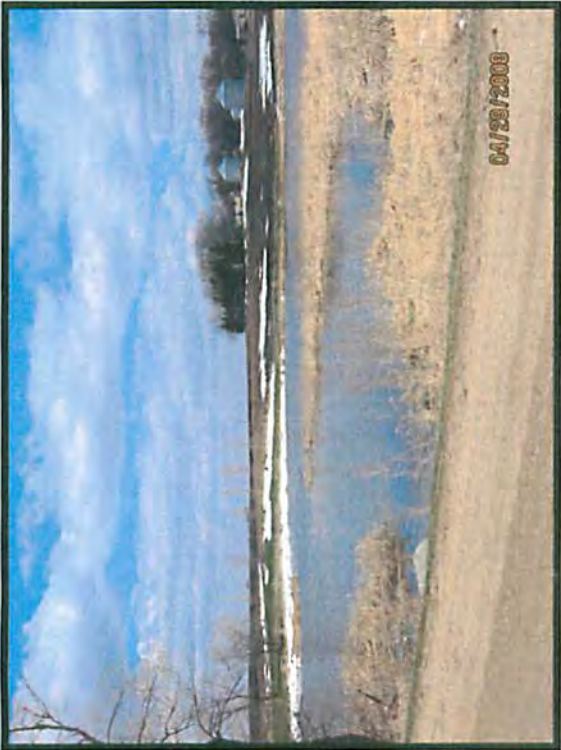


Photo 1-Nistler Sedimentation Basin

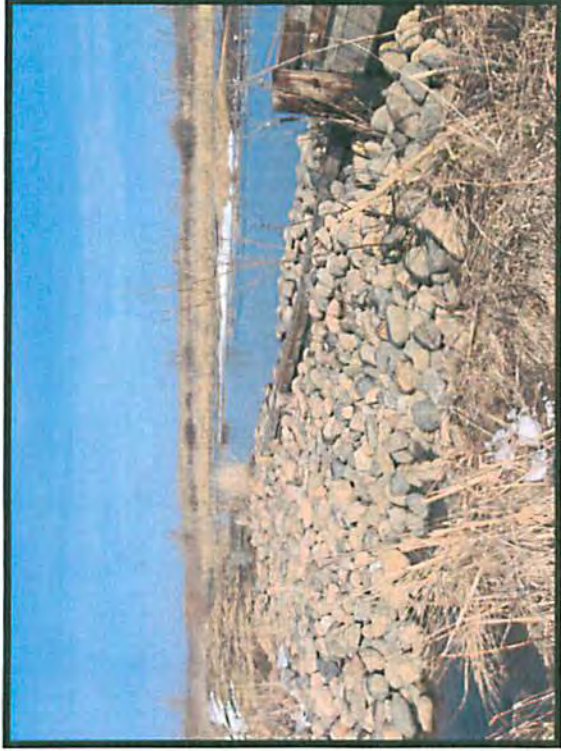


Photo 2-Kingston Wetland-2007
Structure Repair



Photo 3-Kingston Wetland Ditch
Block 1



Photo 4-Kingston Wetland Ditch
Block 2



Photo 5-Annandale Wetland
Channel Block

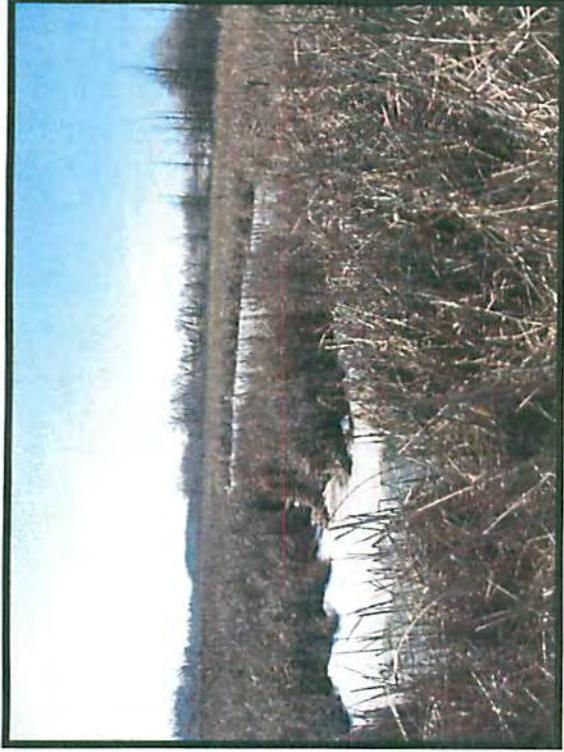


Photo 6-Annandale Wetland
Diversion Structure Obstruction

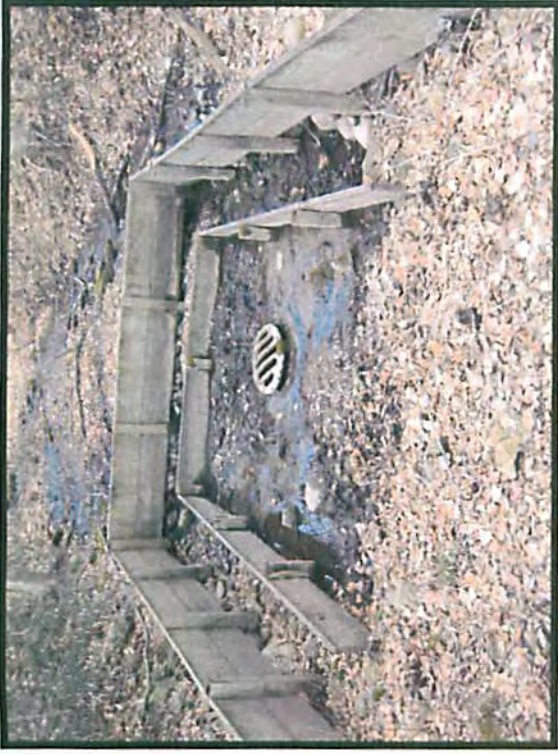


Photo 7-Lake Augusta Erosion
Control Structure



Photo 8-Lake Augusta Erosion
Control Project



Photo 9-Lake Augusta Erosion
Control Project-Riser Structure



Wenck

Wenck Associates, Inc.

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Fax (763) 479-4242