

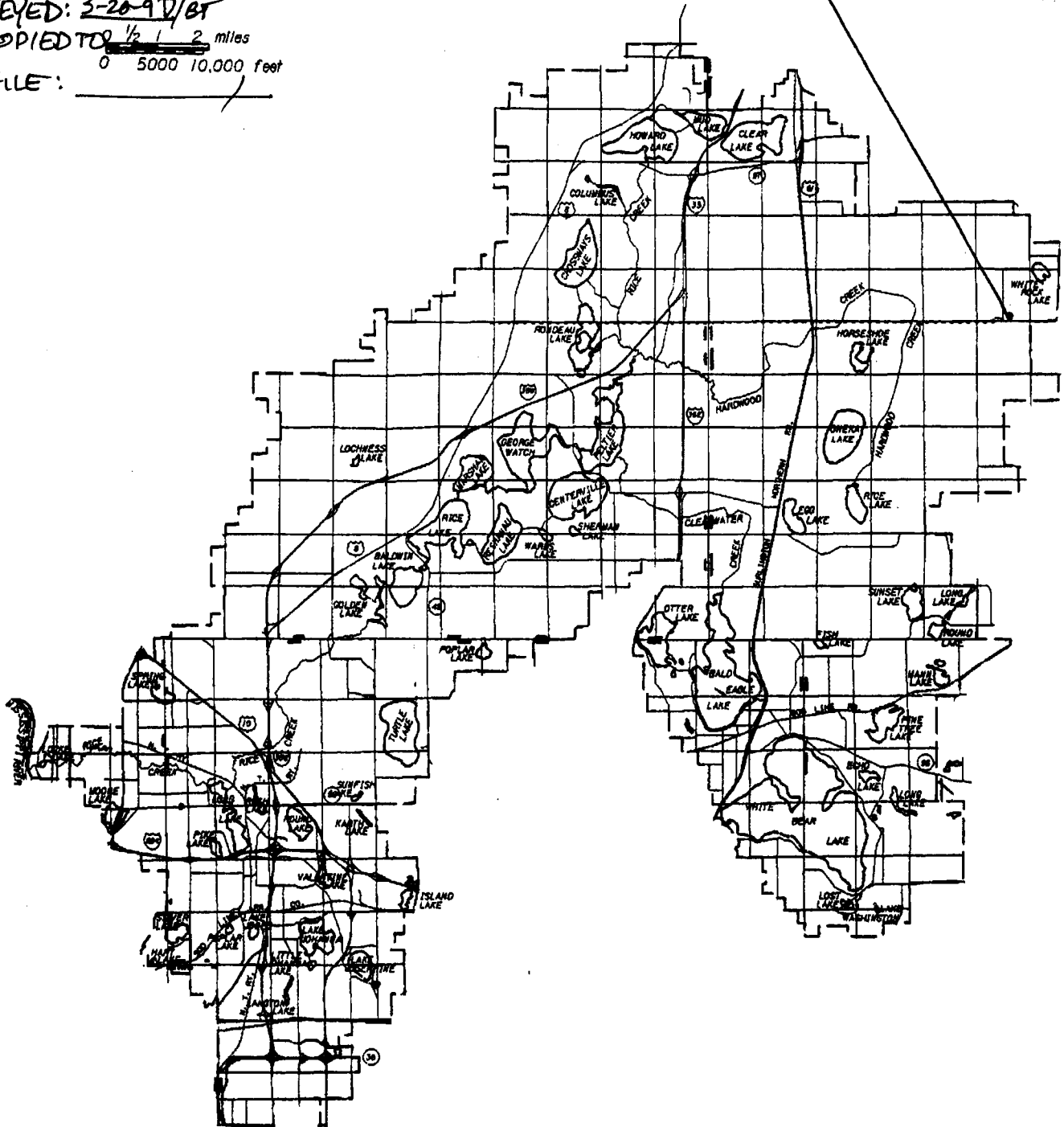
District's Official Copy  
RICE CREEK  
WATERSHED DISTRICT  
1997 PERMT  
RE-MEETING COPY

3-12-97

MAP 15 1997

96-160

LOGGED:             
KEYED: 3-20-97/BT  
COPIED TO 1/2 1 2 miles  
0 5000 10,000 feet  
FILE:           



MONTGOMERY WATSON

Minneapolis, Minnesota

Permit Application No. 96-160: Robert and Barbara Pflieger

APP

Recommendation: Approval.

Location: 400 feet north of the northeast quadrant of 180th Street and July Avenue (County Road 54), Forest Lake Township.

T-R-S: 32-21-36 dca

Purpose: Approval of a Final Site Drainage Plan for the construction of a single family residence, 9.8± acres.

- Exhibits:
1. Permit Application, dated October 25, 1996, received October 28, 1996.
  2. Site Plan prepared by Applicant, undated, received October 28, 1996.
  3. Soil boring and percolation test data prepared by Steve Peloquin, dated April 14, 1995, received October 28, 1996.
  4. Letter from Washington County regarding septic system, dated April 26, 1995, received October 28, 1996.
  5. Project narrative prepared by Applicant, undated, last revised April 10, 1995, received October 28, 1996.
  6. Wetland delineation report prepared by Washington Soil and Water Conservation District, dated December 17, 1996, received February 21, 1997.
  7. Signed legal document granting easements over all on-site wetlands and floodplain (961.9), prepared by Hult and Associates, undated, received February 28, 1997.
  8. Cash surety in the amount of \$500, received February 21, 1997 from Barbara Pflieger.

- Findings:
1. Project involves construction of a single family residence and driveway on a currently undeveloped lot. A lake/wetland occupies approximately one-half (east) of the property and is identified as DNR Protected Wetland 82-165W.
  2. A conservative flood level for the landlocked waterbody has been determined to be 961.9 for back-to-back 100-year events. The proposed first floor elevation will be 963.9, satisfying the District's 2-foot freeboard requirement.
  3. A wetland delineation report has been completed. No wetland impacts are proposed. NWI maps indicate the DNR protected wetland to be Type V (LIUBH) and Type VI (PF01C).
  4. An Erosion Control Plan has been submitted specifying silt fence located between the proposed residence and lake.

3/6/97  
DSK

Permit Application No. 96-160: Robert and Barbara Pflieger

- 5. An easement with satisfactory form and description has been granted over all on-site wetlands and floodplain.
- 6. This Application was tabled on November 27, 1996 for issues relating to wetlands and floodplain.

Board Action:

*MSP*

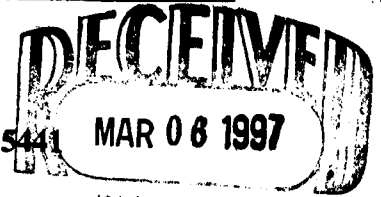
*apil*  
*MSP*  
*RMH* | *BAH* | *4-0*

**F A X**



**MONTGOMERY WATSON**

Waterford Park  
505 US Hwy. 169  
Suite #555  
Minneapolis, MN 55441



RICE CREEK  
WATERSHED DISTRICT

Date: 3/6

Tel: 612 593-9000  
Fax: 612 593-9975

To: LATZ

Fax No: \_\_\_\_\_

From: DEVELL  
Direct Line Phone No. \_\_\_\_\_

Reference: \_\_\_\_\_

Subject: \_\_\_\_\_

No. of Pages: 4  
(including cover)

96-160 FOR THE MATING

DEVELL

Only copy you will receive.

Original follows by mail.

PS

District Official Copy  
POST-MTG COPY

**FINAL**

**RECEIVED**  
FEB 27 1997

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KEYED 3-6-97/BT

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**RICE CREEK WATERSHED DISTRICT**

**CONSENT AGENDA**

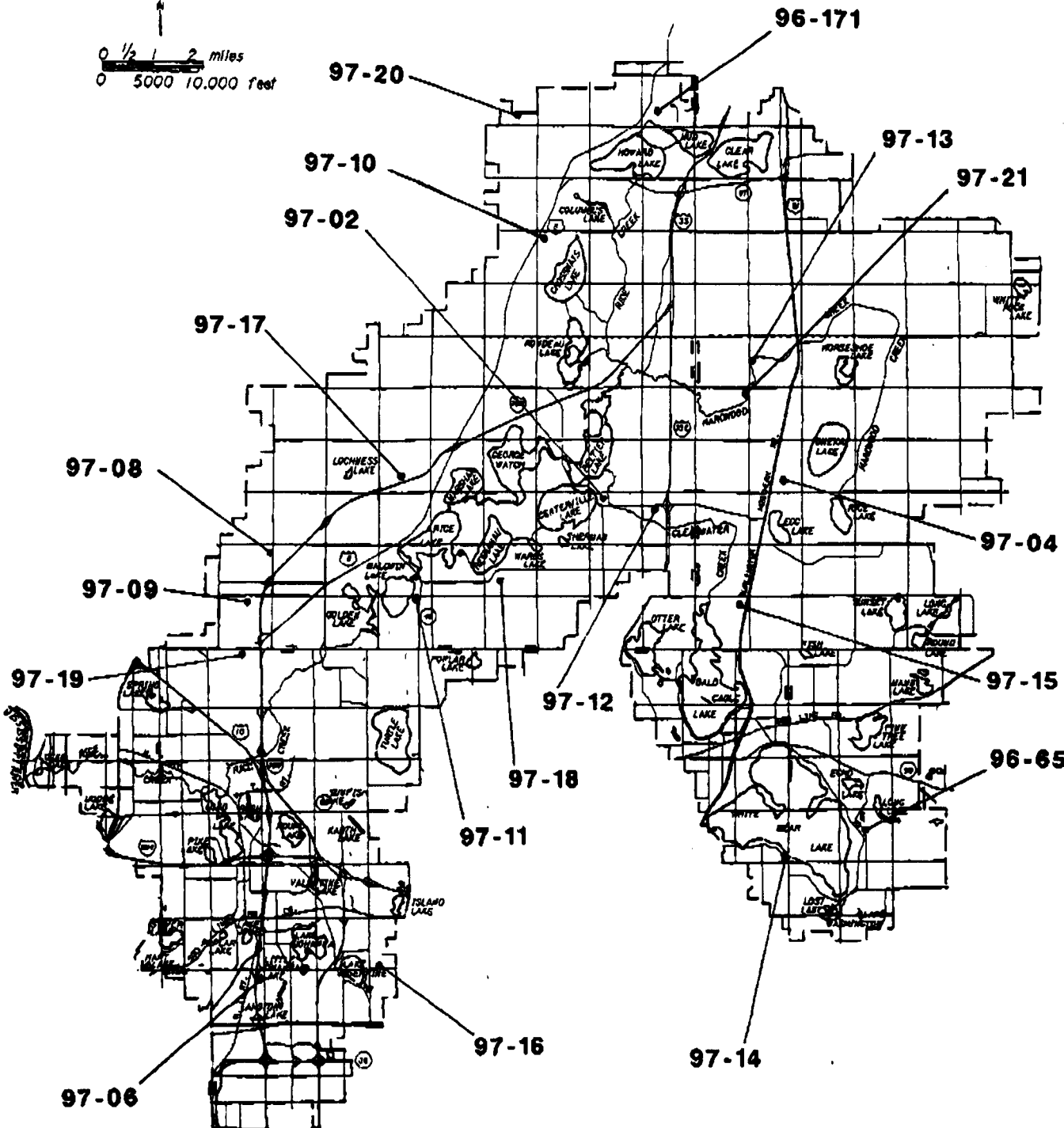
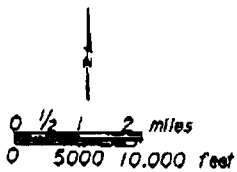
**FEBRUARY 26, 1997**

**RICE CREEK  
WATERSHED DISTRICT**

It was moved by \_\_\_\_\_ and seconded by \_\_\_\_\_ to approve, table with authorization for administrative action, or table the Permit Applications noted in the following table of contents in accordance with the District Engineer's Findings and Recommendations, as contained in the Engineer's Report dated February 21, 1997.

FINAL EDITS

# RICE CREEK WATERSHED DISTRICT 1997 PERMIT



## RICE CREEK WATERSHED DISTRICT

## TABLE OF CONTENTS

FEBRUARY 26, 1997

<u>Permit Application No.</u>	<u>Applicant</u>	<u>Page</u>	<u>Recommendation</u>
96-65	Independent School District No. 832	1	APP
96-171	Gary Meyer	2	TWAFAA
97-02*	Royal Oaks Realty, Inc.	4	TWAFAA
97-04	Fred Riermann	7	TWAFAA
97-06*	Kent Carlson, Ryan Companies, U.S., Inc.	8	<del>TAB</del> TWAFAA
97-08*	Wintz Properties, Inc.	11	TAB
97-09	K-G Development	14	TWAFAA
97-10	Century Fence Company	15	TWAFAA
97-11	Perry Laden & Nancy Guthrie	16	TWAFAA
97-12	Craig Kozar	18	<del>TAB</del> TWAFAA
97-13	Gordon Rehbein Farms	19	TWAFAA
97-14	Ramsey County Department of Public Works	20	TWAFAA
97-15	Kenneth Wilson	21	TWAFAA
97-16	Independent School District No. 623	22	TWAFAA
97-17	Twin City Townhomes	24	TWAFAA
97-18	Sprint Spectrum, LLP	26	TWAFAA
97-19	Benson-Orth Associates	27	TAB
97-20	Rod Bierman	29	TWAFAA
97-21*	Allan Olson	30	TWAFAA

\*To be presented

- LAST REVISED 2/26/97 3:00 p.m.

Permit Application No. ~~96-65~~: Independent School District No. 832

APP

Recommendation: Approval.

Location: 1520 Mahtomedi Avenue, Mahtomedi.

T-R-S: 30-21-20 bdd

Purpose: Approval of a Final Site Drainage Plan for construction of 0.11± acres of impervious parking area, 4.0± acres.

- Exhibits:
1. Permit Application, dated May 9, 1996, received May 9, 1996.
  2. Site Plan prepared by Kemper and Associates, dated May 5, 1996, received May 9, 1996.
  3. Detail Plan prepared by Anderson-Johnson Associates, dated April 18, 1996, received May 9, 1996.
  4. Project narrative prepared by Anderson-Johnson Associates, dated May 8, 1996, received February 19, 1997.
  5. Runoff calculations prepared by Anderson-Johnson Associates, dated May 8, 1996, received June 5, 1996.
  6. Outlet weir detail prepared by Anderson-Johnson Associates, undated, received June 10, 1996.
  7. Rip rap swale detail, prepared by Anderson-Johnson Associates, undated, received February 19, 1997.
  8. Cash surety in the amount of \$2,000 received June 6, 1996 from Mahtomedi School District No. 832.

- Findings:
1. Project involves the construction of 0.11± acres of impervious parking area additions to the existing Mahtomedi District Education Center.
  2. All runoff from new impervious areas will be routed to an existing detention pond located at the northeast corner of the site. This, in turn, discharges to a Type III/V PEMF/PUBG wetland. Preliminary runoff calculations indicate a bounce of approximately 4.6 inches in the pond as a result of this project. As proposed, the outlet weir will be raised 4.6 inches. Flow rates entering the wetland from the pond will not be increased as a result of this project.
  3. NWI maps do not indicate the presence of wetlands near the construction area.
  4. This permit application was TWAFFA'd on May 22, 1996 for issues relating to stormwater management.

Board Action:

2/21/97  
DSK

Permit Application No. 96-171: Gary Meyer

TWAFAA

Recommendation: Table with authorization for administrative action pending receipt of:

~~1. Revised wetland inlet outlet structure and outlet pipe  
overflow elevation between 895.8 and 896.0.~~

2. Signed legal document granting easements over wetlands and floodplain.
3. Cash surety in the amount of \$3,000.

Location: 9264-168th Avenue, Columbus Township.

T-R-S: 32-22-12 cada

Purpose: Approval of a Wetland Alteration Plan for improvements to an existing wetland, 11.5± acres.

- Exhibits:
1. Permit Application, dated November 13, 1996, received November 15, 1996.
  2. Project narrative prepared by Gray Biological Consultants, undated, received November 15, 1996.
  3. Revised aerial photos/site plan prepared by Gray Biological Consultants, undated, received February 12, 1997.
  4. Detail sheet prepared by Gray Biological Consultants, undated, received February 12, 1997.
  5. Settling Pond Plan prepared by Gray Biological Consultants, undated, received February 12, 1997.
  6. RCWD Permit File 78-118.

- Findings:
1. Project involves alterations and improvements to an existing 1.0± acre Type V (PUBF) wetland. An outlet structure (culvert and weir combination) was constructed at the wetland outlet under RCWD-approved Permit 78-118. Applicant is proposing the following activities:
    - Remove an accumulation of organic material/vegetation located at the wetland inlet to create open water conditions. The placement of excavation spoils will be in an existing upland area where spoils from Permit 78-118 were placed.
    - An existing 36-inch CMP which has historically functioned as the wetland inlet structure has been undermined and is lying in the channel bottom. Applicant is proposing to replace the 36-inch CMP with a new 36-inch CMP at the channel bottom to not alter existing hydraulic characteristics.

2/21/97  
DSK

**Permit Application No. 96-171: Gary Meyer**

- Applicant is proposing to replace the existing damaged wetland outlet with an overflow berm at runout elevation 895.6. RCWD Permit 78-118 specified the outlet pipe invert elevation at 895.6 and the emergency overflow elevation at 896.0.
  - A 660-foot length of the western wetland shoreline will be riprapped.
  - A settling pond is proposed immediately upstream of the wetland inlet. This pond would be created to provide sediment removal prior to discharging to the wetland.
2. The entire wetland is within FIS Zone A floodplain although a flood elevation is not specified. No floodplain fill will be placed.
  3. Easements will be required over the entire wetland and floodplain.
  4. An Erosion Control Plan has been submitted specifying silt fence, rip rap and prompt spoils revegetation.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-02: Royal Oaks Realty, Inc.

TWAFAA

Recommendation: Table with authorization for administrative action pending receipt of:

1. Calculations showing bounce in ponds (second cell) for 10-year storm event and detention time for ponds (first cell) for 2-year storm event.
2. Baffled weir (skimmer) and outlet structure detail specifying NWL at outlet pipe invert.
3. Copy of DNR Protected Waters Permit if impacts are proposed below OHW or letter from DNR indicating no permit is required.
4. Revised preliminary plat granting easements over all on-site wetlands, ponds, storm sewer, Clearwater Creek (100 feet from centerline), and all hydrologic features.
5. Pretreatment provisions outside of existing wetlands and with supporting calculations for north access drive runoff between station 23+00 and Main Street and south access drive between station 4+50 and Main Street.
6. Copy of MPCA NPDES permit application.
7. Cash surety in the amount of \$13,000.

- Stipulations:
1. The replacement wetland approved as part of this permit shall be constructed concurrent or prior to any wetland fill activity.
  2. The Notice of Use Restriction and Maintenance Responsibility for the replacement wetland shall be properly filed and recorded prior to any wetland fill activity.
  3. The permittee shall submit a monitoring report on the replacement wetland to RCWD which includes the information specified in Minnesota Rules 8420.0620 each year for five years following completion of the replacement wetland. The report shall be submitted no later than November 15 of each year.

Location: Approximately 300 feet north of the northeast quadrant of Westview Street and CSAH 14 (Main Street), Centerville.

T-R-S: 31-22 ccd

Purpose: Approval of a Land Development Plan <sup>WETLAND ALTERATION PLAN</sup> for construction of a single family residential development to be known as Lakeland Hills, 41 lots, 36± acres.

2/21/97  
DSK

Permit Application No. 97-02: Royal Oaks Realty, Inc.

- Exhibits:
1. Permit Application, dated December 31, 1996, received January 8, 1997.
  2. Grading, Drainage, and Erosion Control Plan prepared by Glenn Rehbein Companies, last revised February 11, 1997, received February 12, 1997.
  3. Preliminary plat prepared by Glenn Rehbein Companies, last revised January 15, 1997, received January 27, 1997.
  4. Preliminary Utility Plan prepared by Glenn Rehbein Companies, dated December 26, 1996, received January 8, 1997.
  5. Wetland sequencing narrative prepared by Glenn Rehbein Companies, undated, received January 8, 1997.
  6. Runoff calculations prepared by Glenn Rehbein Companies, dated December 30, 1996, received January 8, 1997.
  7. Letter to city of Centerville from MDNR regarding DNR Protected Wetland 2-546W OHW, dated January 10, 1997, received January 15, 1997.
  8. Stage storage information, prepared by Glenn Rehbein Companies, dated January 24, 1997, received January 27, 1997.
  9. Hydrocad modeling prepared by MSA Consulting, dated February 14, 1997, received February 14, 1997.
  10. RCWD Permit Files 97-05, 87-54, 84-123, and 78-91.

- Findings:
1. Project involves the construction of a single family residential development on a currently undeveloped lot. The lot is bordered on the east by Clearwater Creek and on the west by Centerville Lake (across Main Street). Most roadway runoff will be collected in storm sewer and routed to several on-site detention ponds, two of which have hydraulically attached sedimentation basins to allow wetland replacement credit for the second cells. The Applicant has not determined the detention time within the first cell for the 2-hour storm (WCA minimum of 24 hours) and the bounce within the second cells for the 10-year storm (WCA maximum of 1.0 feet). It has additionally not been shown that these ponds provide rate control and water quality in accordance with District standards. Runoff from the north section (sta 23+00 to Main Street) and south section (sta 4+00 to Main Street) of proposed roadway is not pretreated and discharges directly to existing wetlands and Centerville Lake. Full pretreatment provisions will be required.
  2. Substantial wetland area exists on the site including three large basins (one designated as DNR Protected Wetland 2-546W for which an OHW has not been determined) and several smaller isolated wetlands. As proposed, 0.63 acres of wetland will be filled as a result of the

2/21/97  
DSK

Permit Application No. 97-02: Royal Oaks Realty, Inc.

project. Mitigation efforts include 0.75 acres of created wetland areas and 0.52 acres of replacement credit from the second cell ponding area, for a total replacement credit of 1.26 acres, satisfying WCA's 2:1 wetland replacement ratio. However, it appears fill could be further minimized by reconfiguring the lots and roadways.

3. The site is physically divided through the center (north-south) by a small ridge. Flood levels for the eastern half of the lot are controlled by Clearwater Creek which has a flood elevation at Peltier Drive of 897.2 (1993 Centerville Flood Reduction Study). The western half of the site is bordered extensively by existing wetlands which are hydraulically connected under Main Street to Centerville Lake which has a 100-year flood level of 887.0 (1992 RCWD Flood Study). The first floor elevations on the eastern and western halves of the project are at least 902.8 and 891.0, respectively, satisfying the District's 2-foot freeboard requirement.
4. An Erosion Control Plan has been submitted specifying silt fence located between the existing wetlands and graded areas, riprap at all storm sewer outfalls, and rock construction entrances. Additional erosion control measures will be placed in between proposed ponding areas and graded slopes.
5. The site is to the southeast (Centerville Elementary School) is being reviewed under RCWD Permit 97-05. The properties to the northeast (L'Allier Estates, Permit 87-54) and north (Peltier Lake Hills, Permits 84-123 and 78-91) were issued RCWD-approved permits.

Board Action:

2/21/97  
DSK

Permit Application No. 97-04: Fred Riermann

TWAFAA

Recommendation: Table with authorization for administrative actoin pending receipt of:

1. Revised Stormwater Management Plan with supporting calculations providing enlarged sedimentation basin with dead storage provisions for proposed building and existing shop.
2. Specification of first floor elevation of at least 932.3.
3. Revised Erosion Control Plan with silt fence along south side of proposed addition.

4. Cash surety in the amount of \$2,000, REC'D 2/19/97 FROM FRED RIERMANN.

Location: 15152 Freeland Avenue N., Hugo.

T-R-S: 31-21-17 dcac

Purpose: Approval of a Final Site Drainage Plan for a building addition to an existing commercial development, 4.0± acres.

- Exhibits:
1. Permit Application, dated January 8, 1997, received January 9, 1997.
  2. Drainage and Erosion Control Plan prepared by Roger Nelson Engineering, dated February 4, 1997, received February 4, 1997.
  3. Project narrative prepared by Roger Nelson Engineering, dated January 9, 1997, received February 4, 1997.
  4. RCWD Permit File 89-85.

Findings: 1. Project involves the construction of a new building to a commerical development. The site across Freeland Avenue N. (to east) was permitted for equipment storage under RCWD-approved Permit 89-85. The project drains west to a private drainage ditch which is tributary to Anoka/Washington Judicial Ditch 3 and Clearwater Creek.

2. The flood elevation for the Clearwater Creek tributary at 152nd Street N. is 930.0 (FIS). The first floor elevation will need to be at least 932.3 to provide 1-foot of freeboard over the on-site sedimentation basin weir overflow elevation.

3. NWI maps do not indicate the presence of wetlands on this site.

4. This application was tabled on January 22, 1997 for issues relating to stormwater management, floodplain freeboard and erosion control.

Board Action:

2/21/97  
DSK

Permit Application No. 97-06: Kent Carlson  
Ryan Companies, U.S., Inc.

TWAF44  
TAB

Recommendation: Table <sup>WAFAA</sup> pending receipt of:

1. Revised Stormwater Management Plan providing additional dead storage for ponds 51, 52, 53, 54 and 56 (see Finding 2).
2. Letter of approval from Roseville to expand Twin Lakes Regional Pond 0.75 acre-feet to accommodate additional drainage area.

~~Identification of Pond 50 outlet and receiving drainage system~~

~~Identification of stormwater collection systems for Lots 9 & 20 and 21.~~

~~Specification of buffer width (setbacks) on Pond 54.~~

~~Revised Erosion Control Plan specifying silt fence located between proposed graded areas and ponds and rip rap at Ponds 20 and 21 storm sewer outlets.~~

~~Specification of 100' first floor elevation on Lot 9 & 20.~~

8. Copy MPCA NPDES Permit Application.

9. Cash surety in an amount of \$10,500.

~~Stipulation: At the time of final approval of development, a final approved Final Site Drainage Plan will be required.~~

Location: Southwest quadrant of County Road D and Cleveland Avenue, Roseville.

T-R-S: 29-23-5 a

Purpose: Approval of a Final Site Drainage Plan for the construction of a commercial development, 48.8 acres.

- Exhibits:
1. Permit Application, dated January 9, 1997, received January 10, 1997.
  2. Preliminary Grading, Drainage and Control Plan, prepared by RLK Associates, ~~dated February 13, 1997, received February 13, 1997.~~  
L.R. 2/25 2/26
  3. Preliminary Hydrology Plan, prepared by RLK Associates, dated February 13, 1997, received February 13, 1997.
  4. Preliminary Site Plan, prepared by RLK Associates, dated February 13, 1997, received February 13, 1997.

2/21/97  
DSK

**Permit Application No. 97-06:** Kent Carlson  
 Ryan Companies, U.S., Inc.

5. General Details Sheet, prepared by RLK Associates, dated February 13, 1997, received February 13, 1997.
6. Project narrative and runoff calculations, prepared by RLK Associates, dated February 13, 1997, received February 13, 1997.
7. RCWD Permit files 87-49, 86-49, 96-155, and 96-154.

**Findings:**

1. Project involves redevelopment of the partially developed Centre Pointe Business Park. The site was originally approved under RCWD Permit Files 87-49 and 86-49. Since permit approval, the roadways (Centre Pointe Drive and Lydia Avenue) and three of the previously approved buildings have been constructed. The proposed project will not change the overall land use and impervious area fraction, although the unconstructed building footprints will be modified.
2. Seven on-site detention ponds were constructed as part of Permit 87-49, including a pond at the south property boundary which is currently being expanded for the Roseville Twin Lakes regional pond (RCWD-approved Permits 96-154 and 96-155). Approximately 20 acres drains south to the regional pond with the remaining 29± acres draining to Cleveland Avenue stormsewer and subsequently to Ramsey County Ditch 5, which is completely storm sewered and passes directly under the northern half of the site.

Under Permit 87-49, dead storage was not required per RCWD standards. The ponds provide rate control in accordance with District standards. The applicant is proposing to create a total of 1.02 acre-feet of dead storage in the existing on-site ponds for the area tributary to Ramsey County Ditch 5. In order to provide full water quality treatment in accordance with District standards for the tributary area, approximately 2.56 acre-feet of dead storage would be required. Below is the individual pond dead storage requirement tabulations:

Pond	Dead Storage Required (ac-ft)	Dead Storage Provided (ac-ft)
50	0.43*	0.49
51	0.19	0
52	0.31*	0
53	0.61	0
54	0.26	0
55	0.52	0.53
56	0.24	0
Total	2.56	1.02

\*adjusted (decreased) for existing buildings

3. No wetlands will be impacted as a result of this project.

2/21/97  
 DSK

Permit Application No. 97-06: Kent Carlson  
Ryan Companies, U.S., Inc.

- 4. An Erosion Control Plan has been submitted specifying rock construction entrances, silt fence located downslope of ~~gravel~~ graded

~~areas and rip rap at storm sewer outfalls. Rip rap will be required on all graded areas and on all ponds. Rip rap will be required on all ponds. Skimmers are specified on ponds, with the exception of Pond 5.~~

- 5. Easements over the on-site detention ponds and 25 feet from centerline of Ramsey County Ditch 5 were granted under RCWD-approved Permit 87-49.

- 6. Proposed first floor elevations match or exceed those approved in RCWD Permit 87-49, with the exception of Lot 3. The proposed first floor elevation is 911.0, while the originally approved permit specifies a minimum first floor elevation of 913.0. ~~THERE IS NO FLOODPLAIN~~

Board Action:

~~ON SITE AND THE ADJACENT POND 54 HWL IS 907.7. THE FFE OF 911.0 SATISFIES THE DISTRICT'S 2-FOOT FREEBOARD REQUIREMENT.~~

2/21/97  
DSK

Permit Application No. 97-08: Wintz Properties, Inc.

TAB

Recommendation: Table pending receipt of:

1. Wetland delineation report.
2. Field verification of wetland boundaries by district staff.
3. Wetland Replacement Plan Application and sequencing narrative.
4. Fulfillment of WCA public comment period (30 days from receipt of Wetland Replacement Plan Application).
5. Quantification of wetland impacts at southwest parking lot corner.
6. Revised grading plan specifying storm sewer network and inverts.
7. Revised site plan specifying a skimmer for Pond B with detail specifying a minimum of four inches of timber weir overlap.
8. Revised runoff calculations specifying bounce in Pond A for a 10-year storm event and detention time for Pond B for a 2-year storm event.
9. Revised Erosion Control Plan specifying silt fence between proposed parking lot and ponds.
10. Legal document granting easements over all on site wetlands, ponds and other hydrologic features.
11. Pond implementation schedule.
12. Copy of MPCA NPDES permit application.
13. Cash surety in an amount to be determined.

- Stipulations:
1. The replacement wetland approved as part of this permit shall be constructed concurrent or prior to any wetland fill activity.
  2. The Notice of Use Restriction and Maintenance Responsibility for the replacement wetland shall be properly filed and recorded prior to any wetland fill activity.
  3. The permittee shall submit a monitoring report on the replacement wetland to RCWD which includes the information specified in Minnesota Rules 8420.0620 each year for five years following completion of the replacement wetland.

2/21/97  
DSK

Permit Application No. 97-08: Wintz Properties, Inc.

The report shall be submitted no later than November 15 of each year.

- Location: 650 feet south of the southwest quadrant of 101st Avenue NE and Naples Street, Blaine.
- T-R-S: 31-23-27 aaad
- Purpose: Approval of Final Site Drainage Plan <sup>WETLAND ALTERATION PLAN</sup> for the construction of a trucking terminal and parking lot, 19.9± acres.
- Exhibits:
1. Permit Application, dated January 9, 1997, received January 14, 1997.
  2. Project narrative prepared by Alliant Engineering, Inc., dated January 13, 1997 and received January 14, 1997.
  3. Grading and Drainage Plan prepared by Dovolis, Johnson, & Ruggieri, Inc. dated January 8, 1997, received January 14, 1997.
  4. Site and Utilities Plan prepared by DJR, Inc., dated January 8, 1997, received January 14, 1997.
  5. Boundary and Topography Survey prepared by DJR, Inc., last revised December 18, 1996, received January 14, 1997.
  6. Grading and Sediment Erosion Control Plan Narrative prepared by Alliant Engineering Inc., undated, received January 14, 1997.
  7. Stormwater Management Plan and runoff calculations prepared by Alliant Engineering, Inc., undated, received January 14, 1997.
  8. RCWD Permit files 95-155 and 84-94.
- Findings:
1. Project involves construction of a trucking terminal and parking lot creating a total of 9.64 acres of impervious area on a currently undeveloped site. All site runoff will be routed to a pair of on-site detention ponds located at the southeast site corner which outlet to an existing wetland. These ponds provide rate control and water quality treatment in accordance with District standards.
  2. Considerable wetland area exists on the site, 1.1± acres of which will be impacted as a result of this project. NWI maps indicate the presence of several isolated TYPE III (PEMC) wetlands and a larger Type II/III (PEMB/PEMF) wetland at the southwest site corner. The applicant is proposing to utilize Pond A as wetland replacement credit as the second cell in a two-celled ponding system. Additional mitigation efforts may be required upon further review of the wetland delineation report.

2/2197  
DSK

Permit Application No. 97-08: Wintz Properties, Inc.

3. An Erosion Control Plan has been submitted specifying silt fence surrounding all graded areas and rip-rap at all storm sewer outfalls. A revised Erosion Control Plan will be required specifying silt fence between the proposed parking lot and ponds.
4. The on site detention ponds will have a flood elevation of 905.8. The proposed first floor elevation is 916.4, satisfying the District's 2-foot freeboard requirement.
5. RCWD-approved Permits 95-155 and 84-94 were issued for a waste management facility and a trucking development, respectively. Both sites are located immediately north of the proposed site.

Board Action:

Permit Application No. 97-09: K-G Development

TWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Cash surety in the amount of \$1,000.

**Location:** Approximately 300 feet south of the southeast quadrant of 93rd Avenue NE and Flanders Street NE, Blaine.

**T-R-S:** 31-23-34 bada

**Purpose:** Approval of a Land Development Plan with construction of a single-family residential development to be known as Sugar Woods, 15 lots, 5.5± acres.

- Exhibits:**
1. Permit Application, dated January 16, 1997, received January 16, 1997.
  2. Preliminary grading and utility plan prepared by Glenn Rehbein Company, dated December 3, 1996, received January 16, 1997.
  3. Wetland delineation report prepared by Anoka Conservation District, dated October 9, 1996, received January 16, 1997.
  4. RCWD Permit files 96-162, 96-55, 95-71, and CSMP 95CO1.

- Findings:**
1. The project involves the construction of a single family residential development and 1,400± feet of roadway to serve the development. The site is tributary to the Anoka Ramsey Judicial Ditch 1 regional pond (RCWD Permit 96-162 and CSMP 95CO1). Rate control and water quality treatment will be provided by the regional pond.
  2. The wetland delineation report concludes that no wetlands are present on the site. NWI maps do not indicate the presence of wetlands on the site.
  3. An Erosion Control Plan has not been submitted.
  4. The flood elevation for Anoka/Ramsey Judicial Ditch 1 located approximately 700 feet east of the site is 906.0 (RCWD Permit 95-71). The minimum first floor elevation will be 914.3 satisfying the District's 2-foot freeboard requirement.
  5. RCWD-approved Permit 95-71 (Aspen Ridge) is located directly east of the site and Flanders Street was reconstructed under RCWD approved Permit 96-55.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-10: Century Fence Company

TWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. An Erosion Control Plan specifying silt fence located downslope of all graded areas and an Erosion Control implementation schedule.
2. A cash surety in the amount of \$500.

**Location:** 14839 Lake Drive, Columbus Township.

**T-R-S:** 30-22-27 bbbb

**Purpose:** Approval of a Final Site Drainage Plan for the construction of a building addition to a commercial facility, 12.2± acres.

- Exhibits:**
1. Permit Application, dated January 15, 1997, received January 17, 1997.
  2. Project narrative prepared by Century Fence Company, dated January 15, 1997, received January 17, 1997.
  3. Site Plan prepared by Century Fence Company, undated, received January 17, 1997.

- Findings:**
1. Project involves the construction of a 2,040 square foot building addition to an existing office and shop. Rate control and water quality will not be an issue as very little new impervious area is being created and all runoff will be overland flow.
  2. No wetlands will be impacted as a result of this project.
  3. No floodplain exists on the site.
  4. An Erosion Control Plan has not been submitted.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-11: Perry Laden & Nancy Guthrie

TWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Narrative describing function and drainage area tributary to existing drainage ditch.
2. Driveway culvert size, material, and invert elevations.
3. Cash surety in the amount of \$500.

**Location:** 6425 Hodgson Road, Lino Lakes.

**T-R-S:** 31-22-30 ddcc

**Purpose:** Approval of a Final Site Drainage Plan for the construction of a single family residence riparian to Baldwin Lake, 1.6± acres.

- Exhibits:**
1. Permit Application, dated December 3, 1996, received December 3, 1996.
  2. Grading plan prepared by Hy-land Surveying, dated January 29, 1997, received February 3, 1997.
  3. RCWD Permit files 85-44, 83-105, 82-73, and 81-145.

- Findings:**
1. Project involves the construction of a single family residence riparian to Baldwin Lake on a currently undeveloped site. Rate control and water quality treatment will not be an issue as very little new impervious area will be created and all runoff will flow overland approximately 400 feet to Baldwin Lake.
  2. An Erosion Control Plan has been submitted specifying silt fence downslope of all graded areas.
  3. A small existing drainage ditch passes diagonally through the center of the site and under the proposed driveway. The drainage area and purpose of this drainage ditch has not been specified.
  4. The proposed home will be set back from Baldwin Lake's OHW of 883.1 approximately 200 feet. This satisfies the DNR's Recreational Development setback requirement of 100 feet.
  5. Baldwin Lake's flood level is 885.3 (1992 RCWD Flood Study). The proposed first floor elevation will be 888.0, satisfying the district's 2-foot freeboard requirement.
  6. No wetlands will be impacted as a result of this project.
  7. RCWD approved Permits 85-44, 83-105, and 82-73 were issued for trailer park construction and improvements located south of the site,

2/21/97  
DSK

Permit Application No. 97-11: Perry Laden & Nancy Guthrie

and RCWD-approved Permit 81-145 was issued for shoreline alterations to Baldwin Lake north of the site.

Board Action:

Permit Application No. 97-12: Craig Kozar

TWAFAA  
~~TAB~~

Recommendation: Table <sup>WAFAA</sup> pending receipt of:

1. Revised Erosion Control Plan specifying rip rap at parking lot curb cut outfall.
2. Size, material and invert elevations of driveway culvert.
3. Identification on Grading Plan of existing 9" CMP under 21st Avenue.
4. Cash surety in the amount of \$1,000.

Location: Southwest quadrant of CSAH 14 (Main Street) and 21st Avenue, Centerville.

T-R-S: 31-22-24 bcaa

Purpose: Approval of a Final Site Drainage Plan for the construction of an industrial building and parking lot, 1.4± acres.

- Exhibits:
1. Permit Application, dated February 4, 1997, received February 4, 1997.
  2. Grading and Drainage Plan prepared by Glenn Rehbein Companies, dated December 23, 1996, received February 4, 1997.
  3. RCWD Permit Files 87-51 and 83-45.

- Findings:
1. Project involves of an industrial building an parking lot on a currently undeveloped site, creating a total new impervious area of 0.40± acres. The site is located in Lot 7, Block 1 of the Roam Industrial Park which was approved under RCWD Permits 87-51 and 83-45.

Site runoff will be routed southwest to a regional pond created under Permit 87-51. This regional pond provides rate control and water quality treatment for the site in accordance with District standards. The pond outlets to Anoka County Ditch 55, which flows through the western half of the industrial park to Clearwater Creek.

2. NWI maps indicate the presence of a Type III (PEMC) located near the southwest site boundary. No grading will occur within this wetland.
3. An Erosion Control Plan has been submitted specifying silt fence located downslope of graded area. Rip rap will be required at the proposed parking lot curb cut outfall.
4. The flood elevation of 20th Avenue is 904.2 (1993 Centerville Flood Reduction Study). The proposed first floor elevation is 907.5, satisfying the district's two foot freeboard requirement. No flood plain fill is proposed.

Board Action:

2/21/97  
DSK

Permit Application No. 97-13: Gordon Rehbein Farms

TWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. As-built culvert survey to verify no modifications to existing pipe size.
2. Additional permit fee in the amount of \$350.

**Location:** Approximately 1,000 feet north of the east end of 174th Street North, Hugo (Station 423+89 of Hardwood Creek).

**T-R-S:** 31-21-5 bccc

**Purpose:** Approval of an "After-the-Fact" Culvert Replacement Plan on the Hardwood Creek Main Branch/Branch 4 confluence.

- Exhibits:**
1. Permit Application, dated January 31, 1997, received February 5, 1997.
  2. Location map prepared by applicant, undated, received February 5, 1997.
  3. RCWD Permit file 76-29.

**Findings:**

1. Project involved replacement of an out-of-service 48" RCP at Station 423+89 of Hardwood Creek. This station is located at the confluence of Branch 4 at the Main Branch of Hardwood Creek.

The 1994 Anoka/Washington Judicial Ditch 2 (Hardwood Creek) inspection report indicates the 48-inch, 44-foot long RCP culvert has not been surveyed. An as-built survey will be required as the culvert size was not modified.

2. RCWD-approved Permit 76-29 was issued for the purposes of public and private ditch cleaning including Branch 4.

**Board Action:**

2/21/97  
DSK

**Permit Application No. 97-14: Ramsey County Department of Public Works TWAFAA**

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Pretreatment measures prior to White Bear Lake discharge for new 18-inch CMP runoff.
2. Revised Erosion Control Plan specifying silt fence between proposed 18-inch CMP and White Bear Lake.
3. Copy of DNR Protected Waters Permit for outfall structure.

**Location:** 2732 South Shore Boulevard, White Bear Lake.

**T-R-S:** 30-22-24 ddda

**Purpose:** Approval of a Culvert Construction Plan to facilitate drainage to White Bear Lake of excessive runoff from yard fronts.

- Exhibits:**
1. Permit Application, dated January 16, 1997, received February 5 1997.
  2. Project narrative prepared by Ramsey County Department of Public Works, dated January 16, 1997, received February 5, 1997.
  3. Site Plan prepared by Ramsey County Department of Public Works, dated November 6, 1996, received February 5, 1997.

- Findings:**
1. Project involves the construction of a 95-foot 18-inch CMP under South Shore Boulevard to aid drainage of excessive runoff from residential lots. The water retention problems are partially resulting from a driveway culvert (15-inch CMP) at 2732 South Shore Boulevard. The new culverts would couple with the existing 15-inch private drive CMP and 8-inch CMP under South Shore Boulevard to more effectively convey runoff from the yard front. Existing drainage patterns would not change and all diverted runoff will discharge to White Bear Lake. Pretreatment measures (sedimentation basin) will be required to pretreat runoff prior to entering White Bear Lake.
  2. An Erosion Control plan has been submitted specifying rip rap at a proposed storm sewer outlet. Silt fence will be required between the proposed culvert and White Bear Lake.
  3. No wetlands will be impacted as a result of this project.
  4. A cash surety will not be required for this project.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-15: Kenneth Wilson

TWAFEA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Revised Erosion Control Plan specifying silt fence located downslope of all graded areas.
2. Revised Stormwater Management Plan extending proposed 24-inch RCP to existing sedimentation pond.
3. Specification of skimmer (with detail) at sedimentation basin outlet.
4. Specification of proposed first floor elevation.
5. Cash surety in the amount of \$1,000.

**Location:** 12912 Farham Avenue, Hugo.

**T-R-S:** 31-21-31 aaab

**Purpose:** Approval of a Final Site Drainage Plan for a building addition to the existing Wilson Tool International facility, 23.2± acres.

- Exhibits:**
1. Permit Application, dated February 3, 1997, received February 5, 1997.
  2. Phase III 1997 Building Expansion Plan prepared by RFC Engineering, Inc., dated January 3, 1997, received February 5, 1997.
  3. Runoff calculations prepared by RFC Engineering, Inc., dated March 22, 1995, received February 5, 1997.
  4. RCWD Permit files 95-19, 92-11, 88-179, 84-62, and 80-120.

- Findings:**
1. Project involves the Phase III construction of a 0.8 acre building addition to an existing industrial facility. This site has been permitted numerous times, with RCWD approved Permits 95-19 and 92-11 issued for Phases I and II of the property expansion. A stormwater ponding system was created under previous permits and meets the District's requirements for rate control and water quality treatment.
  2. An Erosion Control Plan will be required specifying silt fence located downslope of all graded areas.
  3. No wetlands will be impacted as a result of this project.
  4. The flood elevation for the large wetland at the southwest site corner is 931.0 (RCWD Permit 95-19). The proposed first floor elevation has not been specified and will need to be at least 933.0 to satisfy the district's 2-foot freeboard requirement.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-16: Independent School District No. 623 TWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Revised Stormwater Management Plan clearly delineating existing and proposed drainage subwatersheds.
2. Pond 2 and Reach 3 routing and discharge summaries for the 100-year event.
3. Revised Erosion Control Plan specifying silt fence between proposed buildings and pond and rip rap at all storm sewer outfalls.
4. A cash surety in the amount of \$2,000.

**Location:** 955 County Road D West, Shoreview.

**T-R-S:** 30-23-35 cdcc

**Purpose:** Approval of a Final Site Drainage Plan for the construction of several building additions to the existing Emmet Williams Elementary School, 14.1± acres.

- Exhibits:**
1. Permit Application, dated February 12, 1997, received February 13, 1997.
  2. Project narrative prepared by Clark Engineering Corp., dated February 10, received February 10, 1997.
  3. Runoff calculations prepared by Clark Engineering Corp., dated February 6 1997, received February 10, 1997.
  4. Grading, drainage and erosion control plan prepared by Clark Engineering Corp., dated February 6, 1997, received February 10, 1997.
  5. Utility and paving plan prepared by Clark Engineering Corp., dated February 6, 1997, received February 10, 1997.
  6. RCWD Permit file 91-92 and Project Review file 91R11.

- Findings:**
1. Project involves the construction of three building additions to an existing elementary school, creating a total new impervious area of 0.23± acres. All runoff from newly created building will be routed to an on site detention pond which outlets to Shoreview storm sewer on Glen Paul Court and flows west to Lake Josephine. This pond provides water quality treatment for its tributary area in accordance with District standards.

2/21/97  
DSK

**Permit Application No. 97-16: Independent School District No. 623**

Several new storm sewer systems will be constructed on-site to aid drainage from the school's interior. It is unclear from the site plans if current drainage patterns will be altered.

2. NWI maps do not indicate the presence of wetlands on site.
3. The flood elevation for the on site pond is 939.0. The proposed building addition first floor elevations will be 950.6, satisfying the district's 2-foot freeboard requirement.
4. An Erosion Control Plan has been submitted specifying silt fence along the south border of the on site pond. Additional silt fence will be required between the building additions and proposed pond and rip rap will need to be identified on the grading plan.
5. RCWD approved Permits 91-92 and 91R11 were issued for parking lot improvements to the school.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-17: Twin City TownhomesTWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Subwatershed delineation for entire site.
2. Revised Erosion Control Plans specifying silt fence along the entire south border and between the pond and townhomes, and rip rap at storm sewer outfall.
3. Preliminary plat or legal document granting easements over storm sewer and the on-site pond up to back to back 100-year flood levels (897.6).
4. Cash surety in the amount of \$3,000.

**Location:** Southeast quadrant of Apollo Drive and Lea Court, Lino Lakes.

**T-R-S:** 31-22-18 cdb

**Purpose:** Approval of a Land Development Plan for the construction of a multi-family residential development to be known as Apollo Meadows, 31 units, 4.95± acres.

- Exhibits:**
1. Permit Application, dated February 12, 1997, received February 13, 1997.
  2. Grading and Drainage Plan prepared by Landform Engineering Company, dated June 17, 1996, received February 7, 1997.
  3. Preliminary Utility Plan prepared by Landform Engineering Company, last revised June 17, 1996, received February 7, 1997.
  4. Project narrative prepared by Landform Engineering Company, dated February 10, 1997, received February 13, 1997.
  5. Runoff calculations prepared by Landform Engineering Company, last revised February 20, 1997, received February 20, 1997.
  6. RCWD Permit files 92-162 and 90-177.

- Findings:**
1. Project involves the construction of 31 townhome units for a multi-family residential development on a currently undeveloped site. Site runoff will be routed to an existing pond on the east site corner created under RCWD-approved Permit 90-177. The pond currently does not receive drainage from developed areas and will be enlarged to provide sufficient volume to store the runoff from back to back 100-year rainfall events over the contributing watershed area. The pond outlet is Apollo Drive storm sewer at elevation 905.4. It is unlikely flood levels will ever reach this outlet.
  2. NWI maps do not indicate the presence of wetlands on the site.

2/21/97  
DSK

**Permit Application No. 97-17: Twin City Townhomes**

3. An Erosion Control Plan has been submitted specifying silt fence located on the west site border and a portion of the southern border. Additional silt fence will be required on the entire south border and between the proposed development and pond. Additionally, rip rap will be required at the pond storm sewer outfall.
4. A preliminary plat or legal document granting easements over the storm sewer and on-site pond up to back-to-back 100-year flood levels (897.6) will be required.
5. There is no regulatory floodplain on the site. The on-site pond flood elevation from back-to-back 100-year events will be 897.6. The lowest proposed first floor elevation will be 901.0, satisfying the District's 2-foot freeboard requirement.
6. Apollo Drive was constructed under RCWD-approved Permit 92-162.

**Board Action:**

Permit Application No. 97-18: Sprint Spectrum, LLP

TWAFAA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Erosion Control Plan specifying silt fence downslope of all graded areas.
2. Cash surety in the amount of \$250.

**Location:** 876 Old Birch Street, Lino Lakes.

**T-R-S:** 31-22-28 cca

**Purpose:** Approval of a Final Site Drainage Plan for the construction of a communications tower, 10.0± acres.

- Exhibits:**
1. Permit Application, dated February 13, 1997, received February 13, 1997.
  2. Project narrative prepared by Sprint PCS, dated February 13, 1997, received February 13, 1997.
  3. Project narrative prepared by Sprint PCS, dated February 12, 1997, received February 12, 1997.
  4. Certificate of Survey prepared by Westwood Professional Services, Inc., dated December 9, 1996, received February 13, 1997.

- Findings:**
1. Project involves construction of a 160-foot antenna tower on the northern portion of a site currently utilized for communications purposes. An existing road, block building, propane tank, and satellite dishes (dishes to be replaced with tower) are currently present on the site. Rate control and water quality treatment will not be an issue as very little new impervious areas are being created.
  2. The flood elevation for County Ditch 25 at Birch Street is 890.0. All site work will be performed above 892.0 and no floodplain fill will be placed.
  3. An Erosion Control Plan will be required specifying silt fence located downslope of the proposed graded areas.
  4. Numerous wetlands are evident on NWI maps on the southern end of the site. No wetlands will be impacted by this project.

**Board Action:**

2/21/97  
DSK

Permit Application No. 97-19: Benson-Orth Associates

TAB

Recommendation: Table pending receipt of:

1. Wetland Delineation Report.
2. Field verification by District staff of wetland boundaries.
3. Revised pond and pavement configuration with no grading within CSMP Pond flood level (903.2).
4. Revised erosion control plan specifying rip rap at flume outfall, and pond overflow and spillway.
5. Legal document granting easements over on-site ponds, wetlands and all other hydrologic features not covered under CSMP 87C02.
6. A cash surety in the amount of \$2,000.

Location: Southwest quadrant of County Road J and Coral Sea Street, Mounds View.

T-R-S: 30-23-5 baaa

Purpose: Approval of a Final Site Drainage Plan for the construction of a commercial complex, 3.9± acres.

- Exhibits:
1. Permit Application, dated February 12, 1997, received February 13, 1997.
  2. Project narrative prepared by RLK Associates, dated February 13, 1997, received February 13, 1997.
  3. Runoff calculations prepared by RLK Associates, dated February 3, 1997, received February 13, 1997.
  4. Preliminary utility grading and drainage and erosion control plan prepared by RLK Associates, dated February 13, 1997, received February 13, 1997.
  5. RCWD CSMP File 87C02x + PERMIT FILE 95-89.

Findings: 1. Project involves the construction of a office and warehouse facility on a currently undeveloped lot. This site is located within Lot 1 of the North Star Industrial Park, Second Addition, which was planned for under RCWD-approved CSMP 87C02. All site runoff will be routed via a curb cut and bituminous flume to an on-site sedimentation basin which provides water quality treatment in accordance with District standards. The sedimentation pond discharges to the CSMP pond at the southwest site corner which provides rate control in accordance with District standards. It appears the sedimentation basin grading ~~will~~ The ponding system outlets to Anoka Ramsey Judicial Ditch 1 which makes up the western site border.

THE SITE WAS ALSO LOT 3 OF AN INDUSTRIAL SUBDIVISION APPROVED UNDER RCWD PERMIT 95-89.

WILL RESULT IN STORAGE LOSSES WITH THE CSMP POND.

WAS REVISED UNDER PERMIT 95-89 AND

2/21/97  
DSK

Permit Application No. 97-19: Benson-Orth Associates

2. The first floor elevations must be a minimum of 905.5 as specified in CSMP 87CO2. The proposed first floor elevation is 908.5, satisfying the District's 2-foot freeboard requirement.
3. An Erosion Control Plan has been submitted specifying a rock construction entrance and silt fence surrounding the construction limits. Rip rap will be required at the bituminous flume outfall, and at the pond overflow channel and spillway.
4. Site plans do not identify wetlands on the site. However, NWI maps indicate the presence of a Type III (PEMC) wetland at the northeast site corner.
5. Easements were granted under CSMP 87CO2 extending 50 feet from the centerline of Anoka/Ramsey Judicial Ditch 1.

Board Action:

2/21/97  
DSK

Permit Application No. 97-20: Rod Bierman

TWAFEA

Recommendation: Table with authorization for administrative action pending receipt of:

- 1. ~~RENSO SITE PLAN SPECIFYING SOILS PLACEMENT OUTSIDE OF~~
- 2 ~~X~~. Erosion control plans specifying silt fence located downslope of spoil placement areas. FLATS & WETLAND BOUNDARY.
- 3 2. Specifications of proposed seed mix.
- 4 ~~X~~. A cash surety in the amount of \$250.00

Location: 7010 167th Avenue NE, Columbus Township.

T-R-S: 32-22-9 dcb

Purpose: Approval of a Wetland Alternation Plan for the construction of a wildlife pond, 8.0± acres.

- Exhibits:
- 1. Permit Application, dated February 11, 1997, received February 13, 1997.
  - 2. Project narrative prepared by Rod Bierman, dated February 11, 1997, received February 13, 1997.
  - 3. Sketch plan prepared by Rod Bierman, undated, received February 13, 1997.

- Findings:
- 4. ~~WETLAND DELINEATION REPORT PROVIDED BY ANNOVA CONSERVATION DISTRICT, DATED~~
  - 1. Project involves the construction of a 0.46± acre wildlife pond on an existing single family residential lot. The pond will be constructed within an existing wetland which is indicated on NWI maps as a Type III (PEMF/PEMFh). The pond will have a maximum depth of 6 feet and be constructed within the DNR Wildlife Pond Guidelines. 2/20/97, RSC'D 2/26/97.
  - 2. ~~All spoil placement will be in upland areas. A site inspection by the District Inspector revealed the site conditions and pond construction location to be satisfactory.~~
  - 3. An Erosion Control Plan has not been submitted and will be required specifying silt fence located downslope of spoil placement area and identification of proposed revegetation seed mix.

Board Action:

PER THE ~~RENSO~~ A.C.D. DELINEATION REPORT, THE CURRENT SOILS PLACEMENT AREA IS PARTIALLY WETLAND & WILL NEED TO BE RELOCATED TO UPLAND AREA(S).

2/21/97  
DSK

Permit Application No. 97-21: Allan Olson

TWAFEA

**Recommendation:** Table with authorization for administrative action pending receipt of:

1. Specification of sizes, materials and invert elevations of driveway equalizer pipes.
2. Revised Erosion Control Plan specifying silt fence between wetland and proposed driveway (both sides).
3. Quantification of floodplain fill and replacement volumes (below elevation 912.0).
4. Legal document granting easements over replacement wetland and all on-site floodplain and wetlands.

~~5. Fulfillment of RCW 30 Day Public Comment Period~~

6. A cash surety in the amount of \$2,500.

- Stipulations:**
1. The replacement wetland approved as part of this permit shall be constructed concurrent or prior to any wetland fill activity.
  2. The Notice of Use Restriction and Maintenance Responsibility for the replacement wetland shall be properly filed and recorded prior to any wetland fill activity.
  3. The permittee shall submit a monitoring report on the replacement wetland to RCWD which includes the information specified in Minnesota Rules 8420.0620 each year for five years following completion of the replacement wetland. The report shall be submitted no later than November 15 of each year.

**Location:** Southwest quadrant of 170th Street and Fenway Street, Hugo.

**T-R-S:** 31-21-7 aaa

**Purpose:** Approval of a Wetland Alternation Plan for the construction of a single family residence and driveway, 20.0± acres.

- Exhibits:**
1. Permit Application, dated February 12, 1997, received February 13, 1997.
  2. Site Survey prepared by Hult and Associates, Inc., undated, received February 13, 1997.
  3. Wetland delineation report prepared by Washington Soil and Water Conservation District, dated October 2, 1996, received February 13, 1997.

2/21/97  
DSK

Permit Application No. 97-21: Allan Olson

4. Soil borings and percolation tests report prepared by Earth Science, dated April 5, 1987, received February 13, 1997.
5. RCWD Permit Files 91-69 and 88-207.

**Findings:**

1. Project involves the construction of a single family residence and a 700± driveway, 350 feet of which will be placed within the floodplain of Hardwood Creek (912.0 at 170th Street per FIS), which runs through the eastern half of the site. The 350 foot stretch of driveway will also be placed within an existing wetland and drainage easement.

This site is Parcel B of a lot split which was approved under RCWD Permit 88-207, in which easements were granted over most on-site wetlands and floodplain including 100-feet from Centerline of Hardwood Creek. Permit Application 91-69 was submitted for a similar project on the proposed site but was withdrawn due to lack of activity.

2. The 24-foot wide driveway will impact approximately 8,640 square feet of wetland. Mitigation efforts include the removal of upland material directly adjacent to the wetland to create a total of 13,280 square feet of wetland area. This satisfies WCA's 2:1 replacement to fill ratio (after applying the WCA 5,000 square feet De minimus exemption).
3. The applicant has not quantified the floodplain losses resulting from the proposed driveway. Compensatory storage equal to the proposed fill volume will be required below flood elevation 912.0.
4. A pair of equalizer culverts are proposed under the driveway. The sizes, materials and invert elevations have not been supplied for these culverts.
5. The Erosion Control Plan has not been submitted and will be required specifying silt fence located between the driveway (both sides) and the existing wetland.
6. The proposed house first floor elevation will be 914.0, satisfying the District's 2-foot freeboard requirement over a predicted flood level of 912.0 on Hardwood Creek. The home location will also not impact any wetlands.

**Board Action:**

2/21/97  
DSK