



Capitol Region Watershed District

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Regular Meeting Minutes of the Capitol Region Watershed District (CRWD) Board of Managers, for **Wednesday, June 3, 2009, 6:00 p.m.** at the office of the CRWD, 1410 Energy Park Drive, Suite 4, St. Paul, MN 55108.

I. Call to Order at 6:00 p.m. (President, Robert Piram)

A) Attendance

Robert Piram

Joe Collins

Seitu Jones (absent w/notice)

Mike Thienes

Marylyn Deneen

Others Present

Mark Doneux, CRWD

Bob Fossum, CRWD

Dawn Nelson, CRWD

Anna Eleria, CRWD

Elizabeth Storey, CRWD

Forrest Kelley, CRWD

Ela Rausch, Wilder Foundation

Brett Emmons, EOR, Inc.

David MacMillan,

Ramsey County Attorney

Pam Massaro,

Wenck & Associates

Todd Shoemaker,

Wenck & Associates

B) Review, Amendments and Approval of the Agenda

Manager Piram asked for additions or changes to the Agenda. Administrator Doneux requested moving Unfinished Business A. Watershed Survey to follow Permit Applications.

The Board adopted the Agenda as amended by consensus.

II. Public Comment – For items not on the Agenda.

No public comments.

III. Permit Applications

A) Permit # 09-011 Magnolia Earl RSVP (Kelley)

Forrest Kelley reviewed CRWD Permit # 09-011 Magnolia-Earl RSVP. Mr. Kelley said the applicant is St. Paul Public Works. Mr. Kelley said the project is reconstruction of residential Streets and utilities. Mr. Kelley noted that the project is in both CRWD and Ramsey Washington Metro Watershed District (RWMWD). Mr. Kelley said this project has 11.3 acres of total disturbed area, 6.03 acres is in CRWD and 5.27 acres is in RWMWD. There is 6.03 acres of proposed impervious surface and the proposed stormwater management is three infiltration swales and deferral of 18,356 cubic feet of volume reduction credits. Manager Piram inquired about the residential homes. Mr. Kelley said there are no homes affected by the project. Manager Deneen asked how the swales will be maintained. Mr. Kelley said occasional weeding or mowing. Mr. Kelley noted that Ryan Johnson from the Ramsey Conservation District spoke to some residents about no mow grass. Mr. Kelley said the staff recommendation is to approve the permit with one condition.

Motion 09-06-01: *Approve Permit # 09-011 Magnolia Earl RSVP with one condition.*

- 1. Submit a copy of the NPDES permit application.*

Deneen/Thienes

Unanimously Approved

B) Permit # 09-019 Johnson Senior High School (Kelley)

Forrest Kelley reviewed CRWD Permit # 09-019 Johnson Senior High School. Mr. Kelley said the applicant is Independent School District 625. Mr. Kelley said the project is reconstruction of the school's existing parking lot. Mr. Kelley said this project has 2.1 acres of disturbed area, 1.84 acres of proposed impervious surface and the proposed stormwater management is two underground infiltration trenches. Mr. Kelley said the staff recommendation is to approve the permit with four conditions.

Motion 09-06-02: *Approve Permit # 09-019 with four conditions.*

1. *Receipt of maintenance agreement.*
2. *Calculate the time of concentration for each subwatershed using an appropriate method.*
3. *Revise "Sumped MH #2 and East Underground Infiltration Basin" detail on Sheet C1 so it is to scale.*
 - a. *The top of aggregate is labeled as 202.50, but it is shown at the same elevation as the 10" PVC (elevation 201.50).*
 - b. *Approximately 1.5 feet is provided below the 12" HDPE (198.0 – 196.5), but the calculations indicate that 3.0 feet is desired.*
4. *Revise label for the HDPE pipe between CB 9 and CB 7. It is labeled as a 5" diameter pipe.*

Collins/Deneen

Unanimously Approved

C) Permit # 09-021 ADM Floodplain Management (Kelley)

Forrest Kelley reviewed CRWD Permit # 09-021 ADM Floodplain Management. Mr. Kelley said the applicant is Archer Daniels Midland (ADM) and the engineer is Clark Engineering. Mr. Kelley said the project is construction of two storage structures on an existing dock in the Mississippi River. Mr. Kelley said this project has no disturbed area and 120 square feet of impervious surface. There is no proposed stormwater management; the application is for Flood Control and Erosion Control only. Manager Collins asked that if it is on the dock where is the floodplain loss. Mr. Kelley explained that the floodplain loss comes from the accumulative volume from the support beams that the applicant is building on top of the dock. Manager Deneen inquired about the appearance of the project. Manager Piram said no one would be able to see it from Shepard Road in their car. Mr. Kelley said the staff recommendation is to table the permit with three conditions and the Board can indicate their wiliness to consider a variance at the next meeting.

Motion 09-06-03: *Table Permit # 09-021 ADM Flood Plain Management with three conditions.*

1. *Receipt of \$500 surety.*
2. *Provide a detail or description of how construction debris or other pollutants will be prevented from entering the river*
3. *Provide compensatory storage to offset the proposed loss of floodplain storage (39 cubic feet). Compensatory storage shall be completed prior to or concurrently to the permitted floodplain filling.*

Collins/Deneen

Unanimously Approved

D) Permit Program/Rules Update Small Site Work Plan Update (Kelley)

Mr. Kelley provided the Board with a Small Site Work Plan update. Mr. Kelley said the letter went out and staff are waiting on a response from the City of Saint Paul. Mr. Kelley said Administrative Doneux has been talking to Phil Belfiori about scheduling a meeting. Mr. Kelley said there is one new permit from Metro State University for the next Board meeting.

VI. Unfinished Business

A) Watershed Survey (Storey)

Ms. Storey said the CRWD Education and Outreach Plan specifies the need to complete a baseline watershed survey to assess existing attitudes, behaviors and knowledge level among watershed residents. Ms. Storey

introduced Ela Rausch, Research Associate at Wilder Research. Ms. Rausch provided a presentation of the survey methodology and themes from the CRWD Education Plan and Strategic Plan that are represented by the draft survey questions. Ms. Rausch, Board and staff took turns reading the questions from the evaluation. Ms. Rausch noted that the survey will be available in four languages: English, Spanish, Somali, and Hmong. Manager Collins asked about calling the homes of people who are non English speaking. Ms. Rausch said they will be called in English, the language will be determined and then someone who speaks their language will ask the survey questions. Ms. Rausch added that there are designated phone numbers for people to call when a voicemail message is left. Ms. Rausch said 400 surveys will be completed in the District and will produce results with a 95% confidence level for the District as a whole. The Board thanked Ms. Rausch for her work so far on the survey and for the presentation.

IV. Special Reports

A) 2008 SWPPP Annual Report

Ms. Eleria explained that because CRWD owns and operates the Trout Brook Interceptor Sewer (TBI), the District is a regulated operator of a small municipal separated storm sewer system (MS4). The Capitol Region Watershed District (CRWD) is required to prepare and submit, by June 30th, an annual report of activities and accomplishments associated with its stormwater pollution prevention program (SWPPP). In addition, CRWD must solicit public comment on the SWPPP and hold an annual public meeting to present the SWPPP activities known as best management practices (BMPs) and the accomplishments made each year. Ms. Eleria explained that tonight's Board meeting is the public meeting for the SWPPP. Announcements of the public meeting were published in the Saint Paul Pioneer Press and a couple of local newspapers as well as on several Saint Paul district planning council websites. The public comment period is from May 8 – June 7, 2009. Information about the Trout Brook storm sewer system, the SWPPP, and general stormwater information is available on the CRWD website. Ms. Eleria said staff have not received any comments so far. Ms. Eleria said staff will present the 2008 SWPPP BMPs to the Citizen's Advisory Committee at the June 10th meeting and solicit their comments. Ms. Eleria said the Stormwater Pollution Prevention Program (SWPPP) is a comprehensive and solid management tool for improving water quality. Ms. Eleria said the Trout Brook Stormwater is considered an MS4 and a state discharge system. The goals are to reduce discharge of pollutants; protect and improve water quality and comply with water quality requirements of the Clean Water Act. Ms. Eleria said the SWPPP has Six Minimum Control Measures (MCM); public education and outreach; public involvement and participation; illicit discharge detection and elimination; construction site runoff control; post-construction stormwater management and pollution prevention/good housekeeping. Ms. Eleria said the public education and outreach minimum control measure for 2008 included visiting 10 schools, reaching out to 500 students, 4 field trips and a teacher workshop. Ms. Eleria said the District has continued partnerships with WaterShed Partners and Blue Thumb. Public participation included a 30-day public comment period for the annual SWPPP activities, an annual public meeting and meetings with CAC/TAC. Ms. Eleria said new activities planned for 2009 include Illicit Discharge Detection and Elimination (IDDE). Staff will also do additional monitoring of indicator parameters. The MPCA will conduct a Stormwater permit audit. Ms. Eleria said staff will request approval of the SWPPP Annual Report at the next Board meeting.

B) Villa Park Wetland Management Plan, Pamela Massaro, Wenck and Associates, Inc.

Bob Fossum said on August 20, 2008, the Managers approved the scope and budget with Wenck Associates, Inc. for the Villa Park Wetland Management Plan. The study would document the water and nutrient dynamics of the system and identify management options to optimize the systems removal efficiency. Mr. Fossum explained that the plan has an extensive review and summary of previously collected data and modeling results which can be complicated and time consuming to interpret. Mr. Fossum introduced Pam Massaro from Wenck and Associates to summarize the draft Villa Park Wetland Plan and review their recommendations. Ms. Massaro said a considerable number of studies related to VPWS have been completed to date and have detailed a timeline of events for the VPWS. The VPWS was first built by the

City of Roseville and evaluated by the Metropolitan Council under two separate federal Clean Lake studies. Ms. Massaro noted that the present configuration of the VPWS was built by the City of Roseville working in partnership with the CRWD. Ms. Massaro said the VPWS receives stormwater runoff from a 753-acre, fully-developed urban watershed. The majority of the runoff to the VPWS is conveyed through City of Roseville storm sewers. Ms. Massaro added that the VPWS watershed is 72% of the total 1,044-acre watershed tributary to Lake McCarrons. The top two land uses in the VPWS subwatershed are single family residential (60%) and institutional (14%). Ms. Massaro said the VPWS is a regional BMP designed to provide treatment before water drains to Lake McCarrons. It consists of eight components known individually as Sedimentation Basin, Wet Cells 5-1, Hockey Rink Pond and Wet Pond. Ms. Massaro said a large amount of water quality data has been collected since the 1980s to monitor the effective VPWS treatment. Some of the measured parameters include discharge temperature, dissolved oxygen (DO), total and dissolved phosphorus, ammonia, nitrate, total Kjeldahl nitrogen, chlorophyll-a, pH, and total suspended solids. The most intense water quality sampling took place in 2007, when the CRWD sampled all of the VPWS components. Ms. Massaro said the analysis concluded that elevated phosphorus loading is observed in each of the VPWS components under all flow conditions. For the summer of 2007 (May through October), the VPWS below the Sedimentation Basin retained total phosphorus but exported ortho-phosphorus. Total phosphorus retention efficiency of the VPWS was low at 29%. Net ortho-phosphorus export at the Wet Pond of 26.8 pounds represented 172% of the total ortho-phosphorus load at the Sedimentation Basin outlet. This load potentially enters Lake McCarrons and is directly available for algal uptake. Ms. Massaro said in developing management options, the model was used to quickly screen a set of phosphorus reduction options, and determine if the goal could be met by phosphorus budget reduction. The 2006 model was modified to represent the reduction, even if the option was infeasible and magnitude of reduction unreasonable. The model results are compared to the VPWS phosphorus load goal. The Wenck project team held an internal roundtable to develop a list of specific management options. Five phosphorus treatment options were selected for the VPWS with special emphasis on dissolved phosphorus (SRP) and internal load reductions. A preliminary cost estimate, estimated phosphorus removal, and expected design life were determined for each option. Maintenance costs were calculated using a present value approach, which accounts for the time value of money. Ms. Massaro explained that option 1 - Enhance Sand Filtration with Steel Wool would be an experimental system with a three tier sheet pile system. The sand filtration media would be amended with steel wool. There would be minimal visual and recreation impacts. Ms. Massaro said this would meet the 109-lb TP goal and the total present value cost is \$547,000. Manager Piram asked if the goal is 109-lbs total phosphorous maximum per year. Ms. Massaro said yes that is the goal. Manager Deneen asked if the water that flows from County Road E into Villa Park has been tested. Ms. Massaro said the sampling data she has on file is from an area that has already received some treatment. Ms. Massaro said option 2 – Alum Injection System is a known technology. The alum treatment flows would be in wet cell 1. This option would require monthly, annual and 10 year maintenance. Ms. Massaro said there would be visual impacts to the wet pond but minimal visual and recreation impacts elsewhere. Ms. Massaro said this would meet the 109-lb TP goal and the total present value cost is \$1,102,000. Ms. Massaro said option 3 – Manufactured Filtration System is a developing technology with a subsurface filtration system. It would require annual maintenance. There would be minimal visual and recreational impact. Ms. Massaro said this would meet the 109-lb TP goal and the total present value cost is \$648,000. Ms. Massaro said option 4 – Alum Treatment of Wet Cells would be an experimental system with Alum injected into the soils to immobilize TP. There would be minimal structural impact but it would impact vegetation growth and diversity. Ms. Massaro said this option does not meet the 109-lb TP goal and the total present value cost is \$236,000. Ms. Massaro said option 5 – Partial Dredge is a known technology that would be remove 4-ft sediment from all Wet Cells. There would be minimal structural impacts but it would impact vegetation growth. Ms. Massaro said this option does meet the 109-lb TP goal and the total present value cost is \$1,035,000. Ms. Massaro said Wenck and Associates recommendation is option 5 the partial dredge and then pursue option 1, the enhanced sand filtration with steel wool as a demonstration project with St.

Anthony Fall Laboratory (SAFL). Ms. Massaro said the alternate recommendation would be alum injection with watershed TP reductions. Administrator Doneux explained that staff are requesting authorization from the Board to distribute the draft Villa Park Wetland Management Plan to selected partners to get their comments on the different options and then staff will bring back a final plan for adoption.

C) Stream Corridor Restoration, Brett Emmons, EOR, Inc.

Mr. Fossum said the concept of Bringing Water Back to St. Paul has emerged as a key theme of the 2010 Watershed Management Plan (WMP). One component of the theme/effort is identifying and implementing stream restoration sites in CRWD. Mr. Fossum said EOR, Inc. has identified potential areas that could be candidates for stream corridor restoration. At this point these areas are very conceptual and will need further analysis to determine their feasibility. Mr. Emmons said advantages of bringing water back is building awareness of water resources in urban settings, improve public stewardship. Provide better treatment and keep water closer to the surface. Mr. Emmons said creating waterways will create community amenities and increased property values. Mr. Emmons said data considered for the site selection includes basic land use and the ownership, evaluating the opportunities for redevelopment, the elevation and slope makes the area more appealing. Mr. Emmons said preliminary site evaluation factors include constructability; the links to District initiatives or waterbodies; the existing storm sewer infrastructure; the visibility and accessibility of the site among other factors. Mr. Emmons reviewed the potential sites throughout the watershed with the Board. Mr. Emmons said the next step is to finalize the Implementation section of the Plan and determine what to include in the Plan. This section in the Plan would include a feasibility study to identify specific key issues and implement stream segments. The Board thanked Mr. Emmons for his presentation.

V. Action Items

Consent Agenda

Manager Piram asked for a motion to approve the June 3, 2009, Consent Agenda.

Motion 09-06-04:

- A) *Approve Minutes of the May 20, 2009 Regular Meeting as presented.*
- B) *Approve Minutes of the May 27, 2009 Special Meeting as presented.*
- C) *Approve Deinard Stewardship Grant with reimbursement funding not to exceed \$200.00 subject to the following conditions:*
 - 1) *CRWD and Amos Deindard must approve and enter into a Cooperative Agreement;*
 - 2) *Any changes to project plans must be approved by the CRWD; and*
 - 3) *All conditions must be met and the project completed within one year after project approval.*

Thienes/Deneen

Unanimously approved

D) Approve Special Meeting Date for 2010 Budget Workshop (Doneux)

Administrator Doneux said at the May 20th meeting, the Board adopted the 2010 Work Plan and Budget Schedule for the upcoming year. Each year the Board of Managers must establish a plan of work for the upcoming year, establish a budget based upon the work plan, and establish a levy for the budget. To begin this process, staff recommends a special meeting for a budget workshop. Possible times and dates would be a 5:00—7:00 pm meeting on June 22nd, 23rd, 24th or 29th.

Motion 09-06-05: *Set Special Board Meeting for June 29th 5:00 – 7:00 for a workshop to review the 2010 Budget.*

Thienes/Collins

Unanimously approved

VI. Unfinished Business

A) Watershed Survey (Storey)

(This item was moved to follow Permit Applications and Program Update.)

B) 2010 Work Plan Review (Doneux)

Administrator Doneux said due to the time, staff and the Board will review and discuss the draft 2010 Work Plan at the Workshop scheduled for June 29. Manager Piram said he had some revisions written down and he would give it to Administrator Doneux.

C) CCLRT Stormwater Workshop Update (Doneux)

Administrator Doneux said the CCLRT Stormwater Workshop is scheduled for June 25th 8:00 – 3:00 pm.

D) Special Grant Update (Fossum)

Mr. Fossum for the past several years the District has budgeted and levied funds for budget fund 440 Special Projects and Grants. In 2009, the District budgeted \$220,000 and has thus far approved two \$88,000 grants. They were the Falcon Height's City Hall pervious pavement parking lot and the City of St. Paul Fire Station green roof. Mr. Fossum said per the previously adopted process for special grants, staff have drafted a solicitation letter to be sent to our partners requesting applications for potential special projects. Manager Deneen said it is a very good idea. Manager Collins suggested discussing this further at the workshop. Mr. Fossum said staff will hold off on sending out the letters until the Board discusses it further.

VII. General Information

A) Administrator's Report (Doneux)

Administrator Doneux gave the Administrators Report and noted the following events and announcements: Administrator Doneux reminded the Board that the Art and the Watershed Workshop is June 11th at Metro State and asked what Managers would be attending. Managers Deneen and Jones will attend the workshop. Administrator Doneux said the landowner of the wetland east of Arlington post office contacted Forrest Kelley and asked if the District is interested in purchasing the site. Based on the discussion by the Board Administrator Doneux said he will obtain an estimate for a wetland delineation and appraisal on the site for further discussion at a later Board meeting.

VIII. Wednesday, June 17, 2009 Regular Meeting Agenda Review

IX. Adjournment – 8:54 p.m. adjourned by consensus.

Respectfully submitted,

Dawn Nelson

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