

CLARK COUNTY

INTERNAL CORRESPONDENCE

Date April 20, 1979

TO JACK WATNE, DIRECTOR
CLEAN WATER PROGRAM

FROM STEVE O'BRIEN, BURNT
BRIDGE CREEK COORDINATOR

Subject STATUS AND INTER-RELATIONSHIPS OF 208 AND RELATED PROGRAMS

The following is a summary of the status of the 208 Program since its beginnings in 1975 as well as the status of other water programs that are closely related to the 208.

BURNT BRIDGE CREEK

Since adoption of the Burnt Bridge Creek Drainage Management Plan in 1977, drainage utilities have been formed by the City and County for their respective portions of the Basin. However, an inter-local agreement to join the utilities is still pending. An erosion control ordinance is presently being redrafted. As for the runoff control ordinance, we have a model only to work from. Utility financing will not be dealt with until the inter-local agreement is signed. A decision on rates is not expected before November. Septic tank regulations as called for in the Plan are being drafted now as a separate resolution since they were deleted from the County Sewer Guidelines.

Finally, the Vancouver Lake Restoration construction funds await completion of all of the above items. In addition, they were all commitments of the 208 Program for completion in 1978. The EPA conditional approval of the plan, however, allowed until December 31, 1979 for their completion.

VANCOUVER LAKE

The operations plan is about to begin. Construction funding is contingent upon completion of the above Burnt Bridge Creek well as receipt of the necessary permits.

SALMON CREEK

The 1978 208 Work Plan included preparation of a draft quality management plan, which was anticipated to be part of the drainage management plan being developed by the Army Corps of Engineers. In mid-1978 I decided to split these two plans into separate reports, but both have reached the first draft stage only this month. The water quality management plan or pollution control plan is intended to serve as a focus for water quality in Salmon Creek and a means of accelerating the necessary actions. The most critical need pointed out in the WQMP is for sewers to be constructed to replace inadequate septic tanks. However, until the county has a legally adopted comprehensive sewer plan, it cannot build any sewers. Therefore, the 1979 208 Program calls for both the adoption of the WQMP and development of the follow up comprehensive sewer plan.

CLARK COUNTY	
PUBLIC WORKS	
4/24/79	
	INT.
Services	
Development	
Physical Environment	
Maintenance & Operations	
Accounting	
Equipment	
Fire	
Water	

208 must also deal with Meadow Glade and Hockinson. The 1978 Water Quality Management Plan specified certain criteria or guidelines to be followed if the county decided to sewer these two areas, but no decision has yet been made. Since both of these areas are obvious major pollution sources to Salmon Creek, and because the numerous septic tank failures create a health hazard, RPC may choose to take some more positive action or give a more specific recommendation to the county for solution of this problem. This could be and should be addressed within the Comprehensive Sewer Plan to be developed in 1979-1980.

ANIMAL WASTE MANAGEMENT

The Animal Waste Management Program was started in 1977. In 1978 five livestock operators signed waste management plan agreements with the Conservation District and many others participated in the ASCS cost sharing program. 1979 will be the last year that any 208 funds will be available for this program. This is a decision which has been made by EPA. Thereafter, state or local funding for the Conservation District and the Health District's monitoring support will be needed. In an effort to gain a local commitment for this, I have identified it as a recommendation in the Salmon Creek Pollution Control Plan. There is also a bill in the state legislature which would provide funds for conservation districts. It is considered to have a fair chance of passage.

The Conservation District has also been pushing for erosion controls and been active in the policing of problems.

MONITORING

The Health District has a two-man water quality monitoring team. One person has been funded by the county and the other by 208 usually. When 208 funds have not been sufficient, the County Public Works Department has met the need.

Because of the division in funding sources, there is a problem in dividing the work among the various monitoring programs. Presently the animal waste and septic tank monitoring are not receiving enough attention. The Burnt Bridge Creek Utility was to fund approximately \$20,000.00 for monitoring in Burnt Bridge Creek, but none has been appropriated yet. Without the Burnt Bridge Creek and 208 funds, the Health District will not be able to meet the ongoing monitoring needs and also initiate the tracer bacteria studies.

Page Three
April 20, 1979

Re: Status and Inter-Relationships
of 208 and Related Programs

OTHER PLANNING

The 208 Plan is to be updated annually by RPC, though no update was made in 1978.

The present 208 Plan has been conditionally approved by EPA and the State.

RPC is to be involved in reviewing the 201 rating criteria as well as the ratings for projects in Clark County.

The 208 population projections are to be used for all 201 plans in the study area. However, RPC has already concluded that these projections are too low. This may mean that as a part of the annual update, the 208 projections should be revised.

SVO:hj

attachment #7

APPENDIX B

1978 208 WORK PLAN

Clark County, Washington

Regional Planning Council
of Clark County
February 1978

PROGRAM MANAGEMENT

Objective: To expedite implementation of the adopted 208 Water Quality Management Plan.

Task Descriptions

PM 1 - Detailed Work Plan

A detailed work plan, including objectives, task descriptions, outputs, milestones, budget and schedule for the proposed 1978 work program will be submitted to DOE and EPA for approval.

PM 2 - Review Proposed New Ordinances and Regulations

New City and County ordinances which are intended to control runoff and erosion from future developments and further restrict septic tanks in the Burnt Bridge Creek Basin will be reviewed by staff to assure that they are consistent with the adopted 208 Water Quality Management Plan.

PM 3 - Assist Port on Vancouver Lake Detailed Planning

Staff will assist the Port of Vancouver on scheduling, design and management of the Vancouver Lake Rehabilitation Project, including obtaining needed permits.

PM 4 - Water Quality Monitoring

The water quality monitoring program will continue with a focus on locating pollution sources and determining water quality improvements resultant from source abatement. Monitoring will also deal with trends and seasonal fluctuations.

PM 5 - Technical Assistance

Some potential polluters (e.g., builders, service stations) will be contacted to offer some assistance on ways they can prevent pollution or drainage problems from their property. Pamphlets or brochures will be collected or prepared and distributed.

PM 6 - Review Sewerage Plans and Projects

All new sewerage plans and proposed projects will be reviewed for consistency with the adopted 208 Water Quality Management Plan. State criteria for priority rating of projects will also be evaluated in concert with DOE and the other designated 208 planning agencies.

PM 7 - Determine Other Funding Sources

Financing for other planning and implementation needs not covered by the Burnt Bridge Creek, Salmon Creek and Vancouver Lake Programs, will be sought. This will include particularly the future planning needs identified in the Water Quality Management Plan, financial assistance to farmers and the Conservation District and possible demonstration projects.

PM 8 - First Quarterly Report

Progress and expenditures through March will be summarized. Any problems will also be identified. Some meetings with EPA and DOE may be included.

PM 9 - Second Quarterly Report

Progress and expenditures for the period April-June will be summarized and any problems experienced will be identified. Some meetings with EPA and DOE may be included.

PM 10 - Third Quarterly Report

Progress and expenditures for the period July-September will be summarized and any problems experienced will be identified. Some meetings with EPA and DOE may be included.

Outputs

1. Work Plan. March 6, 1978.
2. First quarterly progress report. April 30, 1978.
3. Second quarterly progress report. July 31, 1978
4. Third quarterly progress report. October 31, 1978.

BURNT BRIDGE CREEK

Goal: Implement the Burnt Bridge Creek Drainage Management Plan.

Objectives:

- I. Adopt local City/County policies and regulations necessary to improve and preserve the stream quality of Burnt Bridge Creek.
- II. Hire a Burnt Bridge Creek coordinator to assist with implementation of the plan and coordinate inter-agency and inter-departmental activities.
- III. Develop and implement funding mechanisms to finance development of the stream and drainage system and to assure maintenance of existing and new improvements.
- IV. Develop and implement final detailed system control measures.

Objective Task Description

- | | |
|---|---|
| I | <u>BB-1 Prepare Work Plan</u>

Develop detailed work plan, including objectives, tasks, budgets and outputs for submittal to D.O.E. and E.P.A. for approval. |
| I | <u>BB-2 Assign Staff Responsibilities</u>

Develop overall stream management philosophy and assign functional responsibilities to City and County Staffs accordingly. |
| I | <u>BB-3 Adopt Standards</u>

Adopt overall water quantity and quality standards necessary to assure improved stream flow conditions. |
| I | <u>BB-4 Water Quality Monitoring</u>

Continue water quality monitoring to determine sources of septic tank seepage, siltation, hazardous wastes and other pollution in Creek and to monitor trends and improvements resultant from source abatement. |
| I | <u>BB-5 Septic Tank Regulations</u>

Adopt measures to control future septic tank locations relative to stream banks and potential pollution of subsurface interflow. |

- I BB-6 Septic Tank Elimination
- Develop and adopt a policy concerning elimination of existing septic tank systems which directly contribute to the degradation of water quality in the streams.
- I BB-7 First Quarterly Report
- Progress and expenditures through March will be summarized. Any problems will also be identified.
- I BB-8 Second Quarterly Report
- Progress and expenditures for the period April-June will be summarized and any problems experienced will be identified.
- I BB-9 Third Quarterly Report
- Progress and expenditures for the period July-September will be summarized and any problems experienced will be identified.
- I BB-10 Annual Progress Report
- Progress and expenditures for entire year, including fourth quarter, will be summarized and any problems experienced will be identified.
- II BB-11 Assist Management Advisory Committee
- Provide staff assistance to the management advisory committee.
- II,
III BB-12 Public Information
- Develop and implement a public information program. Most of the program will revolve around the proposal to form a drainage utility and establish service charges. Use of dummy billings, public meetings, all media is envisioned.
- II BB-13 Inter-Agency Coordination
- Coordinate inter-agency and inter-departmental activities.
- III BB-14 Inter-Local Agreement
- Adopt inter-local agreement to legally implement the plan as adopted.
- III BB-15 Form Management Advisory Committee
- Establish advisory group and functional responsibilities of agencies and staff involved.
- a. Designate official agency having authority over fiscal stream management program.
 - b. Designate staff for plan implementation: Management-Design-Maintenance.

III BB-16 Project Funding

Develop and adopt funding program and capital improvement program.

IV BB-17 Runoff Control Regulations

Develop and implement controls for runoff from all new developments including site clearing and grading.

IV BB-18 Detailed Plans for Holding Ponds

Finalize locations and develop plans for in-streams storage ponds.

IV BB-19 Revise Monitoring Program

Revise as needed the water quality and quantity monitoring program.

IV BB-20 Pollution Prevention Criteria

Develop engineering design criteria and construction approval procedures to prevent further degradation of stream quality.

IV BB-21 Construction

Begin construction of necessary system improvements.

Outputs

1. Work Plan, March 6, 1978.
2. First quarterly progress report. April 30, 1978.
3. Second quarterly progress report. July 21, 1978.
4. Third Quarterly progress report. October 31, 1978.
5. Annual progress report. December 31, 1978.
6. Inter-local cooperation agreement. March 31, 1978
7. City and County ordinances requiring control of stormwater runoff from new developments such that the rate of runoff after development does not exceed the rate prior to development. September 30, 1978
8. City and County clearing and grading ordinances. September 30, 1978.
9. City and County ordinances prohibiting septic tanks in ground water sinks, flood plains, areas with high water tables or poor soil, and within 200 feet of streams or direct drainages to streams. December 31, 1978.
10. City and County ordinances creating drainage utility and an ongoing funding program for capital improvements, management and operations. September 30, 1978.

SALMON CREEK

Objective: To develop an acceptable Salmon Creek water quality management plan in concert with the U.S. Army Corps of Engineers' drainage management plan for the basin.

Task Descriptions

SC 1 - Evaluate Alternative Plans

Alternative drainage management plans for the Salmon Creek basin and sub-basins will be reviewed as they are developed by the Corps of Engineers and their consultant. Plans will be reviewed for water quality impacts, costs and political and social acceptability. Public reaction and input will also be solicited through slide presentations, meetings, and other means.

SC 2 - Identify Pollution Sources

Through field studies, interpretation of water quality monitoring results and additional analytical methods, additional pollution sources will be identified and pollution loads estimated for various possible futures.

SC 3 - Evaluate Financial and Management Alternatives

Possible financial and management alternatives to implement the final plan will be evaluated for feasibility, equity and acceptability. Alternatives will actually be developed by consultants to the Corps of Engineers.

SC 4 - Schedule Implementation

A schedule for implementation of major plan elements will be developed to facilitate endorsement and necessary action by the County and other groups and agencies. This will include identification of management agencies and responsibilities.

SC 5 - Consider Other Tasks

This task is intended to allow for the incorporation of any oversights or plan deficiencies noted in the review process.

SC 6 - Prepare Final Report

The Corps of Engineers will prepare a draft and final report for the Drainage Management Plan. RPC will attempt to have the water quality management strategy incorporated into this. If this is not possible, RPC will prepare an addendum describing the strategy for achieving water quality standards and any recommended

changes in the Drainage Management Plan. Efforts will also focus on public involvement leading up to adoption by the elected officials.

Output

A water quality management plan for Salmon Creek Basin will be completed. This will either take the form of the drainage management plan being prepared by the Army Corps of Engineers or an addendum if the Corps' plan does not adequately incorporate a water quality improvement strategy. The plan will describe needed actions, priorities, schedule for key actions, costs of projects and the management agencies to be responsible. December 31, 1978.

ANIMAL WASTES MANAGEMENT

Objectives:

- I. Inform the livestock operators on how the District will conduct the animal waste portion of the 208 program.
- II. Evaluate the need for waste management plans for a minimum of 10 out of the 20 to 25 high priority livestock operations identified in the previous year's study, and where needed, develop such plans.
- III. Determine the significance that livestock operations of less than 40 head have on water quality.
- IV. Maintain observation of the 70 to 80 remaining livestock operations.
- V. Respond to pollution complaints received from County and State agencies and residents of the county.

Objective Task Descriptions

I AW-1 208 Informational Meeting

Work with the County Extension Service to organize and conduct an informational meeting pertaining to the 208 program. Topics to be covered include:

- a. Description of the total 208 Program
- b. 208's connection with the livestock industry
- c. Clark County Conservation District responsibilities
- d. Brief description of the BMP's
- e. Department of Ecology's involvement in the program
- f. Southwest Washington Health District's involvement
- g. Information on the cost share programs available

I, III, IV, V AW-2 Distribution of 208 Information

The District will provide information described in Task 1 while performing field investigations and observation work.

II, V AW-3 Collection of Data on Site

Develop a priority list of 10 livestock operations needing immediate assistance on pollution control measures. This list will come from the list of 20-25 high priority operations collected in the 1977 208 Program. For those ten operations, follow-up contacts will be performed to collect data and observe the operation in a water quality perspective. Data to be collected will include:

- a. Number of mature animals
- b. Number of acres available for waste disposal and current use of this acreage
- c. Soils
- d. Streams and drainage ways

- 1) Intermittent or continuous
 - 2) Access of animals to water (direct)
 - 3) Access of pollutants to water (indirect)
 - 4) Quantity of flow
- e. Visual condition of drainageways and streams
- f. Waste facilities in current use
- 1) Method or system used
 - 2) Storage capacity
- g. Total area contributing runoff to the waste facilities.

II, AW-4 Water Quality Monitoring

III,

IV, V Conservation District personnel will work with SWHD personnel to establish needed water sampling stations.

- a. Sampling stations will be located below and above the 10 priority operations.
- b. Sampling will be done on several streams to determine the effects that small livestock operations have on water quality.
- c. Sampling will be done in cases of a complaint.
- d. Frequency and type of sampling at each station will be determined on a case-by-case basis.
- e. Results will be included in the livestock owners' 208 Folder which was established during the 1977 208 Program.

II, V AW-5 Develop Waste Management Plans

Upon completing the investigation and evaluation of each of the ten high priority livestock operations, waste management plans will be developed for those with serious water pollution problems.

- a. Follow-up contact will be made to discuss the situation with the operator.
- b. The District will work with the operator, Soil Conservation Service, and Extension Service to develop the proper waste management plan.
- c. A schedule for key actions will be included in each plan.
- d. Copies of all accepted plans will be sent to DOE.

II, V AW-6 Waste Management Plan Follow-up

Each operator who receives a waste management plan will also receive three follow-up contacts by the District during the succeeding 6 months.

Purpose:

- a. To determine if adequate progress is being made in regard to implementation of the Waste Management Plan.

- 1) Intermittent or continuous
 - 2) Access of animals to water (direct)
 - 3) Access of pollutants to water (indirect)
 - 4) Quantity of flow
- e. Visual condition of drainageways and streams
- f. Waste facilities in current use
- 1) Method or system used
 - 2) Storage capacity
- g. Total area contributing runoff to the waste facilities.

II, AW-4 Water Quality Monitoring

III,

IV, V Conservation District personnel will work with SWHD personnel to establish needed water sampling stations.

- a. Sampling stations will be located below and above the 10 priority operations.
- b. Sampling will be done on several streams to determine the effects that small livestock operations have on water quality.
- c. Sampling will be done in cases of a complaint.
- d. Frequency and type of sampling at each station will be determined on a case-by-case basis.
- e. Results will be included in the livestock owners' 208 Folder which was established during the 1977 208 Program.

II, V AW-5 Develop Waste Management Plans

Upon completing the investigation and evaluation of each of the ten high priority livestock operations, waste management plans will be developed for those with serious water pollution problems.

- a. Follow-up contact will be made to discuss the situation with the operator.
- b. The District will work with the operator, Soil Conservation Service, and Extension Service to develop the proper waste management plan.
- c. A schedule for key actions will be included in each plan.
- d. Copies of all accepted plans will be sent to DOE.

II, V AW-6 Waste Management Plan Follow-up

Each operator who receives a waste management plan will also receive three follow-up contacts by the District during the succeeding 6 months.

Purpose:

- a. To determine if adequate progress is being made in regard to implementation of the Waste Management Plan.

- b. Provide further assistance if needed.
- c. Provide assistance to the SWHD in collecting water samples within the operator's property lines.
- d. Determine if additional time or an extension of time is needed to meet the schedule for implementation of key actions.

II,V AW-7 DOE Intervention

DOE will be asked to intervene in cases where reasonable action has not been taken to implement an accepted waste management plan.

I, AW-8 Evaluate Small Livestock Operations

III

The District will work with the small livestock operators (less than 40 head) and the SWHD to determine the impact that these small operations have on water quality.

I,IV AW-9 Follow-up with Other Large Operations

Continue field observation and follow-up work with the remaining 70-80 large livestock operators (more than 40 head).

- a. Provide them with BMP manual
- b. Assist them in choosing the proper BMP's to implement.

AW-10 BMP Manual

Work will include development and publication of the BMP manual.

II AW-11 1978 Ag-related 208 report

thru
V

Preparation of the final report will involve writing, public review, revisions, printing and distribution. The agriculture community will be heavily involved in reviewing drafts of the report.

AW-12 First Quarter Report*

AW-13 Second Quarter Report*

AW-14 Third Quarter Report*

- * The quarterly reports shall include a summary of what progress has been made and a discussion of any problems encountered during the quarter.

Outputs

1. Best Management Practices Manual. March 31, 1978.
2. Waste management plans for those operations out of the 10 evaluated that need a plan. Four plans by June 30, two in July, two in August and two in September.
3. Report on the 1978 Ag-related 208 Program. December 31, 1978.

4. Memorandum of agreement between the Washington State Department of Ecology, the Conservation Commission and the Clark County Conservation District on dairy waste management responsibilities. July 31, 1978.