

priority 11/18/71

132. #14

SOUTHERN IOWA RESOURCE CONSERVATION AND DEVELOPMENT PROJECT
Project Measure Proposal

Project Name Osceola City Lake Protection Date _____
County Clarke Location Osceola, Iowa 50213
Suggested Sponsoring Group Osceola Municipal Water Department
Contact Man Harry Lingle Address 330 N. Filmore, Osceola, Iowa 50213
Description Inventory of erosion in lake watershed and resulting siltation of lake, as well as sources of financial assistance needed for land treatment.

Benefits Expected Improvement in quality of water and prolong life of municipal reservoir.

Estimated Cost \$ Unknown Local Share _____

Present Progress Recognition of problem.

RC&D Assistance Needed: Technical ☒ Financial ☒

Other Land owners in watershed area will need substantial cost sharing in order to be able to install necessary land treatment measures.

Signed Royce Miller
Title R.C. & D. Steering Committee member

Sponsoring Group

We will sponsor Project ☒ We will not Sponsor _____

Name and Address of Contact Man _____

Remarks _____

3-23-71
Date

Board of Trustees
Osceola Water Works
Name of Sponsoring Group

[Signature]
Signature and Title

Submit 3 copies to any member of your County RC&D Steering Committee or Soil Conservation District office.

County Steering Committee

Approve Project _____

Disapprove Project _____

Date _____

Name _____

Chairman, County
Steering Committee

Project Committee

Approve Project _____

Disapprove Project _____

Date _____

Name _____

Chairman, Project
Committee

Executive Board

Final Approval _____

Disapproved _____

More Information Needed _____

Project Priority _____

High _____

Medium _____

Low _____

Date _____

Name _____

Chairman

REMARKS



United States
Department of
Agriculture

Soil
Conservation
Service

693 Federal Building
210 Walnut Street
Des Moines, Iowa 50309

APR. 17 1981

April 15, 1981

Fred J. Wood
Chairman
Board of Waterworks Trustees
City of Osceola
Osceola, Iowa 50213

✓ Richard Carson
Chairman
Clarke County Soil Conservation District
820 A North Main Street
Osceola, Iowa 50213

Gentlemen:

The West Lake Measure Plan #19-6002-039-014 has been approved for installation. Construction of items included in the plan is dependent upon availability of both RC&D and local funds.

A copy of the measure plan is attached.

Sincerely,

William J. Brune
State Conservationist

Attachment

RC&D MEASURE

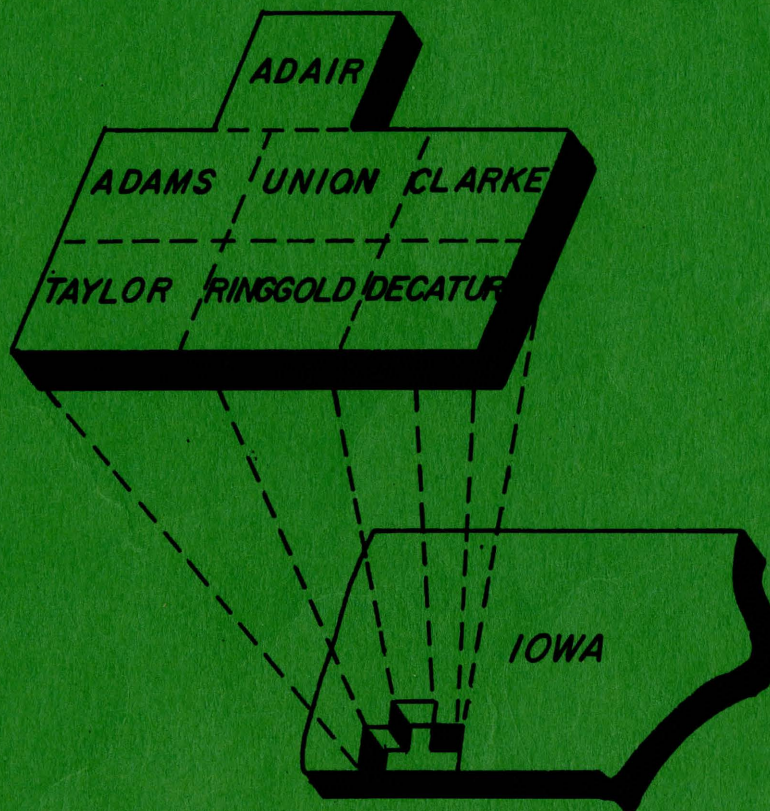
Manually signed

WEST LAKE
WATER QUALITY MANAGEMENT

RC&D MEASURE PLAN
19-6002-039-014

CLARKE COUNTY, IOWA

SOUTHERN IOWA RESOURCE CONSERVATION AND DEVELOPMENT AREA



April, 1981

WEST LAKE
WATER QUALITY MANAGEMENT

RC&D MEASURE PLAN
19-6002-039-014

CLARKE COUNTY, IOWA

Sponsored By:

CITY OF OSCEOLA
Board of Waterworks Trustees

and

CLARKE COUNTY SOIL CONSERVATION DISTRICT
CLARKE COUNTY, IOWA

SOUTHERN IOWA
RESOURCE CONSERVATION AND DEVELOPMENT
AREA

Prepared with assistance from:

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DES MOINES, IOWA

April, 1981

Prepared under authority of Section 102 of the Food and Agriculture Act of 1962 (Public Law 87-703), Soil Conservation Act of April 27, 1935, (16 U.S.C. 590 a-f).

WEST LAKE
WATER QUALITY MANAGEMENT
RC&D MEASURE PLAN

I. PLANNING AREA AND RESOURCES

A. The Planning Area

The West Lake measure planning area covers approximately 6,350 acres in Clarke County, Iowa. Clarke County is located in the northeast part of the seven county RC&D planning area. West Lake is located approximately two miles northwest of Osceola, a major rural trade center in south central Iowa and the county seat of Clarke County.

Approximately 5,000 people, numerous businesses and light industry depend on West Lake for their municipal and industrial water supply. West Lake is the only source of water for the city of Osceola and approximately 100 rural users. It is the only major impoundment in the county. In addition, the lake provides many days of recreation in the form of fishing, hunting, boating, etc.

The area draining into the lake contains 35 farm units. Land use is as follows:

Cropland	5010 acres
Pastureland	836 acres
Other*	504 acres
	6350 acres

*Includes 162 acres of water in the reservoir and the remainder is in farmsteads, roads, woodlands, etc.

B. Evaluation of Resource Capabilities

Sediment and attached nutrients are the major water quality problems in West Lake. Sediment reduces the reservoir storage capacity and results in additional water treatment costs due to increased back-flushing of water filters.

It is estimated 30 to 40 acre feet of water is being displaced by sediment each year. A recent water volume survey of West Lake indicates the water capacity to be 1370 acre feet when the reservoir is full. At the present rate of deposition, the effective life expectancy will be approximately 20 years during periods of low runoff.

Nutrient enriched water results in algal blooms due to concentrations of nitrogen and phosphorus. The city of Osceola water department treats West Lake with an Algaecide. This treatment has been effective in controlling algae and has minimized taste and odor problems from algae.

Ground water is not a viable water supply alternative or supplement to West Lake. Shallow wells have inadequate water yields and are usually contaminated with nitrates and coliform bacteria. The Jordan aquifer exists over most of the region at a depth of about 2,500 to 3,000 feet below the ground surface. Limited well data from southwestern Iowa indicates that wells in the Jordan aquifer yield from 100 to 300 gallons per minute. The water in the Jordan aquifer is highly mineralized and does not generally meet the U. S. Public Health Service standards for drinking water. Well yields in the Mississippian aquifer in southwestern Iowa are generally low. Like the wells in the Jordan aquifer, the wells tapping the Mississippian system in the seven county area yield water which does not generally meet U. S. Public Health Service Standards for drinking water.

Topography is gently sloping on ridge tops with strong moderately steep side slopes. Predominant soils within the area are Haig, Grundy and Shelby.

At present it is estimated that soil loss averages from 10 tons per acre per year on the gentle slopes up to 26 tons per acre per year on the steeper slopes. It is estimated the average soil loss is 12 tons per acre per year. Approximately 132,400 tons of soil are lost annually from the uplands due to sheet and rill erosion. About 2,700 tons are eroded annually by gully and stream erosion. The estimated average annual sediment yield to West Lake is 44,900 tons.

Deposition of sediment is affecting the fish and wildlife aspects of the reservoir and surrounding area. People are hesitant to use the area for recreation as shallow water is making the area attractive to mosquitoes and other insects. Visual quality is also adversely affected.

An opportunity exists to greatly reduce the amount of nutrient enriched sediment reaching West Lake by applying best management practices especially on the cropland.

<u>SEDIMENT</u>			
SOURCE	PRESENT T/Yr.	WITH PROJECT T/Yr.	REDUCTION T/Yr.
Gully	2,300	600	1,700
Sheet and Rill	42,600	3,200	39,400
Total	44,900	3,800	41,100

II. PLANNING OBJECTIVES AND ALTERNATIVES

A. Sponsor Objectives

Primary objectives of the sponsors is to improve water quality and prolong the life expectancy of the reservoir by reducing sediment and nutrients delivered to the lake. They want to provide the community with better quality and a more stable water supply. This will improve the standard of living for the area. West Lake will also become more attractive for recreational uses.

The purpose for which RC&D financial and technical assistance is requested is water quality management.

This is consistent with the objectives in the short term plan of the Southern Iowa Resource Conservation and Development area plan Supplement #1 dated September, 1977.

B. Alternative Planning Considerations

Measure sponsors first considered no action. This would not meet sponsors objectives since the water quality would continue to deteriorate and the lake fill with sediment.

A second alternative is to install sediment basins in tributaries draining into West Lake. Erosion would continue in the uplands and sediments would continue to be delivered to the basins and eventually fill them with sediment.

A third alternative is to construct a new municipal water reservoir. This would be very costly, and the drainage area above this new reservoir would need a land treatment program to reduce sedimentation.

The fourth alternative is to apply best management practices on land within the drainage area of West Lake. Best management practices are the most effective means to maintain or enhance water quality and reduce water storage volume loss from sediment in West Lake. Measure sponsors selected this alternative as the most acceptable.

Selected Plan Accounts are displayed as follows:

Prevent Detachment

Long term economics

Leave soil on the slopes

No future loss production

Deduct future cost for maintenance
of terraces, ditches, treatment plant

NATIONAL ECONOMIC DEVELOPMENT ACCOUNT

COMPONENTS

MEASURES OF EFFECTS 1/

Beneficial effects:

A. The value to users of increased outputs of goods and services

1. Sediment	\$ 71,930
2. Best Management Practices	<u>88,840</u>
Total beneficial effects	\$160,770

COMPONENTS

MEASURES OF EFFECTS 1/

Adverse effects:

A. The value of resources required for a plan.

1. Installation costs	\$ 45,080	<u>2/</u>
2. Administration	520	
3. Operation & Maintenance	<u>2,680</u>	
Total Adverse effects	\$ 48,280	
Net Beneficial Effects	\$112,490	

1/ Average Annual

2/ Price base December 1980; amortized for 50 years at 7 3/8 percent interest.

ENVIRONMENTAL QUALITY ACCOUNT

COMPONENTS

MEASURES OF EFFECTS

COMPONENTS

MEASURES OF EFFECTS

Beneficial & adverse effects:

A. Areas of natural beauty

1. Improve visual diversity on areas terraced.

B. Quality consideration of water, land, and air resources.

1. Prevent soil depletion on 4,420 acres of eroding land.
2. Prevent 47,100 tons of sediment annually and associated pesticides and nutrients from entering the water supply lake of Osceola.
3. Prevent the loss of 174 acres of prime farmland.

C. Biological resources

1. Improve water quality in West Lake for fish.

REGIONAL DEVELOPMENT ACCOUNT

COMPONENTS

MEASURE OF EFFECTS 1/
STATE OF REST OF
IOWA NATION

Income

Beneficial effects:

A. The value of increased output of goods and services to users residing in the region.

1. Sediment	\$ 71,930	\$ 0
2. Best Management Practices	<u>88,840</u>	<u>\$ 0</u>
Total beneficial effects:	\$160,770	\$ 0

COMPONENTS

MEASURE OF EFFECTS 1/
STATE OF REST OF
IOWA NATION

Income:

Adverse effects:

A. The value of resources contributed from within the region to achieve the outputs.

1. Installation Costs	\$10,530 2/	\$34,550 2
2. Administration	50 2/	470 2
3. Operation & Maintenance	<u>2,680</u>	<u>--</u>

Total adverse effects: \$13,260 \$35,020

Net beneficial effects: \$147,510 - \$35,020

1/ Average annual

2/ Price Base December 1980; amortized for 50 years at 7 3/8 percent interest.

COMPONENTSMEASURES OF EFFECTS
STATE OF REST OF
IOWA NATION

Employment

Beneficial effects:

A. Increase on number &
types of jobs.

- | | |
|---|--|
| 1. Employment for project
construction | 1110 man-days of skilled
and semi-skilled jobs. |
| 2. Employment for project
O & M | 5 man-days semi-skilled
jobs per year. |

Population Distribution

Project measure will not
have a significant effect
on population.

COMPONENTSMEASURES OF EFFECTS
STATE OF REST OF
IOWA NATION

SOCIAL WELL BEING ACCOUNT

COMPONENTS

Beneficial and Adverse effects:

- A. Real Income Distribution
- B. Life, Health, and Safety

MEASURES OF EFFECTS

- 1. Create 1110 man-days of skilled and semi-skilled jobs.
- 1. Improve water quality in West Lake by preventing nutrients attached to sediments from entering the water supply lake.

III. INSTALLATION OF THE SELECTED PLAN

A. What Will Be Installed

Best management practices will be installed as planned in resource plans developed by the landowners in cooperation with the Clarke County Soil Conservation District. These plans will provide for resource management systems for protecting water quality from erosion as described in Section IV of the Technical Guide prepared for the Clarke County Soil Conservation District. Best management practices are as follows:

Work To Be Installed	Unit	Installation Schedule		
		1981	1982	1983
A. Terraces	Ft.	75,000	50,000	25,000
B. Grade Stabilization Structures	No.	2	2	2
C. Conservation Tillage System	Ac.	2,210	1,475	735

B. Installation Costs

The cost of installing this measure is approximately \$600,850. The estimated costs are shown in Table 1. In determining final costs to be borne by each party, the actual costs incurred in the installation of the best management practices will be used.

The Soil Conservation Service will comply with regulations and executive orders for protection of cultural properties.

1. Construction Costs - Costs for installing the best management practices will be cost shared 75 percent from RC&D funds and 25 percent from local funds. These costs are estimated to be \$555,000.
2. Engineering Costs - These costs will be provided from RC&D funds. They are estimated to be \$38,900.
3. Administrative Costs - The Service and the sponsors will each pay the administrative costs which they incur. They are estimated to be \$6,950.

C. Methods of Financing

The Soil Conservation Service will finance its share of the costs using Resource Conservation and Development funds. These funds are contingent upon appropriations by Congress. The Clarke County Soil Conservation District will finance its share of the costs by making arrangements with landusers on whose land the best management practices are installed.

D. Land and Water Rights

The Clarke County Soil Conservation District will secure needed land rights by amendment to its agreement with landowners or other methods as required by the Service.

E. Contracting and Procurement

Best management practices will be installed by the average cost method between the land user and the Clarke County Soil Conservation District.

F. Economic Evaluation, Benefits and Effects

The justification for using RC&D funds for this measure is based on the total impact this measure will have on the community.

Monetary benefits for installation of best management practices are estimated to be \$71,930 for maintaining the present capacity of West Lake. Four thousand four hundred and twenty acres of soil resource will be preserved from depletion for an annual benefit of \$88,840.

Annual cost of best management practices is \$48,280.

IV. OPERATION AND MAINTENANCE

The landusers will be responsible for operation and maintenance of the best management practices installed on their land. An operation and maintenance agreement will be entered into between the Clarke County Soil Conservation District and the Service setting forth operation and maintenance requirements prior to execution of a project or service agreement. The Clarke County Soil Conservation District will, in turn, enter into individual agreements with landusers to provide land rights, operation and maintenance and a schedule of installation.

Operation and maintenance work will normally include items such as:

1. Re-establish vegetative cover on the earthfill, emergency spillways and terrace backslopes.
2. Replace or repair damaged sections of tile and principal spillways.
3. Replace soil removed by erosion and rodents on the earthfills, terraces and emergency spillways.

Inspections of the improvements will be made annually by the Clarke County Soil Conservation District and Service for a period of three years. Additional inspections will be carried out following a severe storm or any other unusual condition that might affect the works of improvement. Service personnel may assist the sponsors in their inspections at the discretion of the State Conservationist. Upon request, the Clarke County Soil Conservation District will provide technical assistance to the extent its resources permit for needed maintenance work. Operation and maintenance work will be assumed by the landowner on whose land the works of improvement are installed.

Estimated annual operation and maintenance cost is \$2,680.

V. UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION ACT

The measure sponsor assures that comparable replacement dwellings will be available for individuals and persons displaced from dwellings, and will provide relocation assistance advisory services and relocation assistance, make the relocation payments to displaced persons, and otherwise comply with the real property acquisition policies contained in the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, 84 Stat. 1894) effective as of January 2, 1971, and the Regulations issued by the Secretary of Agriculture pursuant thereto.

The costs of relocation payments will be shared by the measure sponsors and the Service as follows:

	<u>Measure Sponsors</u>	<u>Service</u>	<u>Estimated Relocation Payment Costs</u>
	(percent)	(percent)	(dollars)
Relocation Payments	23.3	76.7	00

Investigation has disclosed that under present conditions the RC&D measures will not result in the displacement of any person, business or farm operation. However, if relocations become necessary, relocation payments will be cost-shared in accordance with percentages shown.

VI. MUTUALLY AGREEABLE PLAN

Through a request of the Clarke County Soil Conservation District, city of Osceola, Board of Waterworks Trustees, and the Service, this mutually agreeable RC&D measure plan has been completed. This RC&D measure has been adopted by the Southern Iowa Resource Conservation and Development Area Executive Board and included in the area plan as a means to accomplishing objectives of the area plan.

VII. AGREEMENT REQUIRED TO OBLIGATE FUNDS

This is not a fund-obligating document. Financial and other assistance to be furnished by SCS in carrying out the work in this plan is contingent upon the appropriation of funds for this purpose.

A separate agreement will be entered into between the Service and the sponsors before either party initiates work involving funds of the other party. Such agreement will set forth in detail the financial and working arrangements and other conditions that are applicable to the specific improvements to be installed.

VIII. COMPLIANCE WITH CIVIL RIGHTS ACT

The program conducted will be in compliance with all requirements nondiscrimination as contained in the Civil Rights Act of 1964 and the Regulations of the Secretary of Agriculture (7 C.F.R. Sec. 15. 1-15.12) which provide that no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any activity receiving Federal financial assistance.

IX. NO MEMBER OF CONGRESS TO BENEFIT

No member or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this agreement, or to any benefit that may arise therefrom: but this provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.

This measure plan may be amended, revised, or terminated only by mutual agreement of the parties hereto, except for cause.

CITY OF OSCEOLA
Board of Waterworks Trustees

By Joe Wood Date 4-8-81

Title Chairman

Authorized by a resolution of the city of Osceola, Clarke County, Iowa,
at a meeting held on 4-8-81.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

By Richard Carson Date 4-8-81

Title Chairman

Authorized by a resolution of the Clarke County Soil Conservation District
at a meeting held on 4-8-81.

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

By William Brune
State Conservationist

Date 4/9/81

TABLE I - ESTIMATED COST

WEST LAKE
WATER QUALITY MANAGEMENT
RC&D MEASURE PLAN

COST ITEM	ESTIMATED COST (DOLLARS) 1/		TOTAL
	RC&D FUNDS	OTHER FUNDS	
	NON-FED	NON-FED	
	LAND	LAND	
<u>CONSTRUCTION</u> 2/			
Best Management Practices	\$416,250	\$138,750	\$555,000
<u>ENGINEERING</u>	38,900	--	38,900
<u>ADMINISTRATION</u>	6,250	700	6,950
<u>LAND RIGHTS</u>	--	--	--
<u>TOTAL COSTS</u>	\$461,400	139,450	\$600,850

1/ Price Base: December, 1980

April, 1981

2/ Includes the cost of constructing BMP practices plus associated vegetative work
See RCDH Appendix 102.10 (f) -2

TABLE 2 - ANNUAL COSTS

WEST LAKE
WATER QUALITY MANAGEMENT
RC&D MEASURE PLAN

(Dollars) 1/

Structural Measure	Amortization of Installation Cost	Operation Maintenance and Replacement	Total
Best Management Practices	\$45,080	\$2,680	\$47,760
Administration	\$ 520	--	\$ 520
Total	\$45,600	\$2,680	\$48,280

1/ Price Base: Installation costs are based on December, 1980 price level and are amortized at 7 3/8 percent over 50 years. Operation and maintenance costs are based on current prices.

Date: April, 1981

TABLE 3 - COMPARISON OF BENEFITS AND COSTS

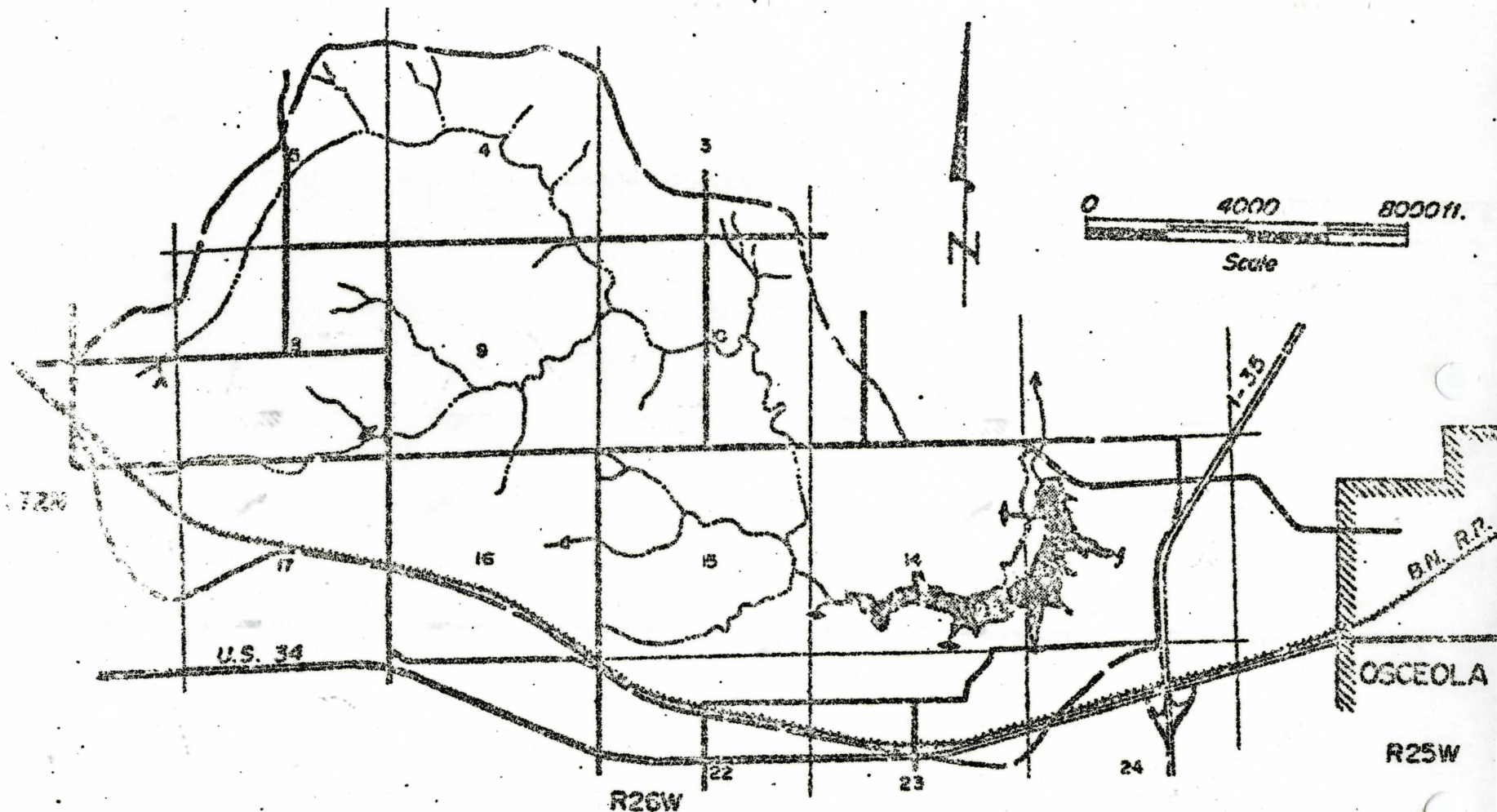
WEST LAKE
WATER QUALITY MANAGEMENT
RC&D MEASURE PLAN

(Dollars) 1/

Structural Measures	Average Annual Benefits		Total Average	Average Annual Cost	Benefit Cost Ratio
	Sediment	Best Management Practices			
Best Management Practices	\$71,930	\$88,840	\$160,770	\$47,760	3.4 to 1.0
Administration				\$ 520	
Total	\$71,930	\$88,840	\$160,770	\$48,280	3.3 to 1.0

Price Base: Prices of December, 1980 for benefits: costs from Table 2.

Date: April, 1981



LEGEND

DRAINAGE AREA
 SECTION LINES
 SECTION NO. 20
 PROPOSED STRUCTURE SITE

MEASURE PLAN MAP

WEST LAKE

CLARKE COUNTY

TO

Keith Edwards, D.C.

Osceola, IA

FROM

Deane S. Glen, P.E.

Des Moines IA

SUBJECT

West Lake topog maps

MESSAGE

Enclosed are 2 blueline copies of the topographic maps of West Lake watershed. There are 17 sections each mapped on a separate sheet. Also enclosed are the 17 sheets of 1"=660' reductions on mylar. The bluelines are 1"=200'. We will retain one set of blue lines and the original mylar transparencies. If more copies are needed, let us know. CC Loudon Aust

SIGNATURE

Deane S. Glen

REPLY

2/9/81
Called Lynn Sickles
re: blue line copies
of topographic maps
& mylar.
Mylar returned 2/18/81

SIGNATURE

DATE

TO

Keith Edwards, D.C.

Osceola, IA

FROM

Deane S. Glen

Des Moines IA

AUG 25 1980

1

8/22/80

SUBJECT

West Lake field notes
and Bench Marks

MESSAGE (WRITE CONCISE MESSAGE. SIGN AND FORWARD PARTS 1 AND 3 TO ADDRESSEE. RETAIN PART 2.)

Attached is bound set of copies of the engineering field notes and a copy of the Bench Mark descriptions for West Lake. This work was done by Hoskins-Western-Sonderegger, Lincoln, NE. I am sending a copy of the B.M.s to Langford too. Also attached are the 1:10,800 aerial photos and an index map of photos and topog sheets.

SIGNATURE

Deane S. Glen

REPLY (USE THIS SPACE FOR REPLY. SIGN AND DATE. RETURN PART 3 TO SENDER. RETAIN PART 1)

SIGNATURE

DATE

WEST LAKE

DESCRIPTION OF BENCH MARKS AND SEMI-PERMANENT BENCH

MARKS IN CLARKE COUNTY, IOWA FROM FIELD BOOK HWS #1423

B.M.	DESCRIPTION	ELEV.
F110-1935	Government bench mark 3.5 miles west along CB & QRR from station at Osceola, 9 poles east of milepost 364, 66' south of centerline of the south track, 49' southwest of pole with 2 guy wires, at a culvert under U.S. 34, in the center of the top of the north headwall.	1153.069
TT20-MT	1950 Government bench mark 1 mile south and 3 miles west of Osceola, at 1/4 corner of sections 23 & 26, T72N, R26W, 355' north of crossroads, 33' east of road, 4' north of telephone pole, in concrete post.	1123.886
TBM 101	RR spike in power pole southwest of "T" roads near north center 1/16 corner of Section 23, T72N, R26W. (page 7)	1125.58
TBM 201	RR spike in power pole $\pm$ 800' west of the northeast corner of Section 23, T72N, R26W. (page 9)	1123.62
TBM 203	RR spike in power pole southeast of the "T" road south near the northwest corner of Section 25, T72N, R26W. (page 14)	1149.02
TBM 202	RR spike in power pole southwest of the intersection of U.S. 34 & the first rock road west of Interstate 35 near north center 1/16 corner of Section 24, T72N, R26W. (page 15)	1130.62
TBM 204	RR spike in east support post of large Standard Oil highway sign $\pm$ 1,000' west of Interstate 35 and north of dirt road along south line of Section 13, T72N, R26W. (page 16)	1130/05
TBM 301	RR spike in power pole southwest of intersection of old Highway 34 and north-south road near the northeast corner of Section 21, T72N, R26W. (page 17)	1162.96

(Clarke County, Iowa continued)

B.M.	DESCRIPTION	ELEV.
TBM 302	RR spike in top of the northwest wooden pile on the northwest wingwall on a small wooden bridge + 500' south of new Highway 34 near the east $1/4$ corner of Section 21, T72N, R26W. (page 18)	1087.11
TBM 303	The top RR spike on the southeast wooden pile on the northwest wingwall on a small wooden bridge near the west $1/16$ corner along the south line of Section 22, T72N, R26W. (page 19)	1076.74
TBM 304	Found RR spike in second power pole south of old Highway 34 & west of rock road near the north center $1/16$ corner of Section 22, T72N, R26W. (page 20)	1174.70
TBM 401	RR spike in power pole southwest of "T" roads south near the northeast corner of Section 16, T72N, R26W. (page 21)	1154.45
TBM 402	Chiseled square on top of east end of southern concrete curb on concrete decked bridge + 1,000' west of the northeast corner of Section 15, T72N, R26W. (page 23)	1076.10
TBM 403	RR spike in power pole northwest of "T" roads north near the west $1/16$ corner on the south line of Section 11, T72N, R26W. (page 23)	1135.77
TBM 404	RR spike in 12" corner fence post @ east end of curve east of dam + 700' west of the north center $1/16$ corner of Section 13, T72N, R26W. (page 25)	1112.96
TBM 501	Chiseled square on west side of south curb cut + 1,500' west of the northeast corner of Section 26, T72N, R26W. (page 27)	1116.82
TBM 502	RR spike in second power pole west of north-south rock road & south of new Highway 34 near the northeast corner of Section 20, T72N, R26W. (page 28)	1131.60

(Clarke County, Iowa continued)

B.M.	DESCRIPTION	ELEV.
TBM 503	RR spike in power pole south of Highway 34 closest to the northwest corner of Section 20, T72N, R26W. (page 29)	1156.68
TBM 504	Chiseled square on southwest end of a 36" reinforced concrete pipe under Highway 34 near the northwest corner of Section 14, T72N, R26W. (page 30)	1146.58
TBM 505	RR spike in a power pole near the center of Section 13, T72N, R27W. (page 31)	1184.87
TBM 506	RR spike in power pole south-southwest of crossroads near the center of Section 12, T72N, R27W. (page 32)	1201.05
TBM 507	RR spike in power pole northeast of "T" road south near the center of Section 7, T72N, R26W. (page 33)	1194.78
TBM 508	Top of south end of easternmost of two 48" corrugated metal pipes near the west 1/16 corner along the north line of Section 17, T72N, R26W. (page 35)	1149.41
TBM 509	RR spike in corner fence post northwest of crossroads near the southwest corner of Section 9, T72N, R26W. (page 509)	1146.92
TBM 601	RR spike in the northwest face of a power pole northwest of a "T" road north near the center of Section 8, T72N, R26W. (page 38)	1182.55
TBM 602	RR spike in the northeast face of a power pole northeast of "T" roads east near the south 1/4 corner of Section 5, T72N, R26W. (page 38)	1176.72
TBM 603	RR spike in the north face of a power pole in the yard of a farm house $\pm$ 800' east of the north 1/4 corner of Section 9, T72N, R26W. (page 39)	1153.40
TBM 604	RR spike in the northeast face of a power pole southwest of crossroads @ the north 1/4 corner of Section 10, T72N, R26W. (page 40)	1138.15

(Clarke County, Iowa continued)

B.M.	DESCRIPTION	ELEV.
TBM 605	RR spike in a power pole south of road and west of drive @ farm house near the northwest corner of Section 11, T72N, R26W. (page 41)	1136.86
TBM 701	RR spike in a power pole southwest of a "T" road west near the north center 1/16 corner of Section 5, T72N, R26W. (page 43)	1145.93
TBM 702	RR spike in second power pole east of "T" roads north and south of east-west road near the west 1/16 corner along the north line of Section 4, T72N, R26W. (page 44)	1147.32
TBM 703	RR spike in the north face of a power pole west southwest of a "T" road west near the north 1/4 corner of Section 3, T72N, R26W. (page 45)	1144.98

1. Mike Miletich	Art Pontier	17, 18
2. Rosalie Redman	Wayne Boor	7
3. Merle Klein	Merle Klein	7
4. Bob Glasco	Darrell Mateer; Flaherty	8
5. Darrell Flaherty	Darrell Flaherty	8
6. R.J. Kirkpatrick	Ed Ratashak	8, 17
7. Eula Marquis	Jim Webb	8
8. Frank Reynolds	Frank Reynolds	5
9. Glenn Stephenson	Dale Stephenson	5
10. Paul Audelhelm	Paul Audelhelm	5
11. Dale Stephenson	Dale Stephenson	4, 9
12. Glenn Hughes	KilKenney Bro.	4
13. P. Smith	Roger Davis	4
14. Gerald Davis	Gerald Davis	4
15. Don Edgington	Ron Edgington	4, 9, 10
16. Sam Audelhelm est.	Kenneth Rikenny	3, 4
17. Robert Patterson	Merle Patterson	3
18. Merle Patterson	Merle Patterson	3
19. Litchfield Realty	Kenny Webb	3
20. Jim Webb	Jim Webb	10
21. John Webb	John Webb	10
22. Jack Nish	Jack Nish	10
Marlow Petersen	Marlow Petersen	10, 15
Ron Edgington	Ron Edgington	15
Syd Gross	Ron Edgington	16
Tom Iwed	Tom Iwed	22
Ralph Gilbert	Ivan Van Loon	16
Hubert Price	Hubert Price	16
Merrell Dorland	Merrell Dorland	15, 22

30.	Leland Shaw	Leland Shaw	15
31.	WA Touet	Dick Touet	11
32.	Dick Touet	Dick Touet	14
33.	Kenneth Clark	Kenneth Clark	14
34.	KE Weakland	K.E. Weakland	9
35.	Dale Bonnett	Dale Bonnett	12
36.	Reed : Stephenson	Reed : Stephenson	13
37.	Kenneth McComas	Kenneth McComas	13
38.	Randy Dunbar	Kenneth Dunbar	24
39.	Don Kelso	Bill Kelso	24
40.	Ed Miller	Ed Miller	23
41.	R.L. Braunschweig		23
42.	Dora Beadel	Leland Crawford	23, 24
43.	City of Osceola		13, 14

West Lake RCD Funds

(Total Alloc.
#85,663.19)

Ref. No.	Name	Date	Amount (-)	Amount (+)	Balance
1	Original Contract	6/81			10800000
2	# 1 R. J. Kirkpatrick	1/82	1262685		9537315
3	Returned to State Office #2	8/82	6000000		3537315
4	# 2 Litchfield Realty	10/82	791636		2745679
5	# 3 John D. Webb	2/83	749600		1996079
6	# 4 Margius Farms, Inc.	8/83	961281		1034798
7	Increase in Funds #5	9/84		890000	1924798
8	Increase in Funds #6	12/84		1200000	3124798
9	# 5 Merle Patterson	6/85	652349		2472449
10	# 6 Merle Patterson	4/85	145440		2327009
11	# 7+8 Dale Stephenson	2/85	2051642		275367
12	Increase in Funds #7	5/85		866000	1141367
13	Increase in Funds #8	3/86		200200	1341567
14	# 9+10 Gilbert Trust Farm		1343385		(1818)
15	Increase in Funds #9	9/86		603800	601982
16	# 11 Marlow Peterson	10/87	459141		142841
17	# 12 Jack Nish	10/87	143115		(274)
18	Funds Returned from Nish proj.	12/87		90649	90375
19	Funds Returned from Gilbert Proj.	1/88		428206	518581
20	Amendment #11 Increase in funds			100000	618581
21	Funds Returned from Peterson Proj.			9566	628147
22	# 13 Jack Nish	4/88	634466		(6319)
23	Increase in Funds #12	5/5/88		6319	000

				Total program Outlays	Fed Share
#1 Ratashak	82	GBS Terraces	6117 ft	\$16971 ⁸⁵	\$12626 ⁸⁵
#2 Litchfield	82	NB Terraces	5000 ft	\$27576 ³¹	\$20543 ²¹
#3 John Webb	83	GBS Terraces	4150 ft	\$37570 ⁹⁷	\$28039 ²¹
#4 Marquis	83	GBS Terraces	4000 ft	\$50998 ⁵⁹	\$37652 ⁰²
#5 Patterson	85	STRUCTURE			
#6 Patterson	85	W/S BASINS	800 ft	\$81194 ⁴⁸	\$59622 ⁸⁴
#7-8 Stephenson	85	GBS Terraces	7650	79204 ⁹⁵	\$58168 ⁴⁴
" "		W/S BASIN	100 ft		
9-10 Gilbertburg	86	GBS Terraces	5500 ft		
11 Peterson	88	GBS Terraces	2000		
12 Judd Hush	88	W/S Basin	600 ft		
13. Judd Hush	88	GBS Terraces	1750		
		W/S Basin	1628 Cuyd		

Mailed 2/10/89

Form 1096 Department of the Treasury Internal Revenue Service	Annual Summary and Transmittal of U.S. Information Returns	1988
Type or machine print FILER'S name (or attach label) Clarke Soil & Water Conservation District Street address PLACE LABEL HERE 820A N. Main Street City, state, and ZIP code Osceola, IA 50213		Paperwork Reduction Act Notice We ask for this information to carry out the Internal Revenue laws of the United States. We need it to ensure that taxpayers are complying with these laws and to allow us to figure and collect the right amount of tax. You are required to give us this information.
If you are not using a preprinted label, enter in Box 1 or 2 below the identification number you used as the filer on the information returns being transmitted. Do not fill in both Boxes 1 and 2.		For Official Use Only
1 Employer identification number 42-1211481	2 Social security number 	3 Total number of documents 3
4 Federal income tax withheld \$		5 Total amount reported with this Form 1096 \$
Check only one box below to indicate the type of forms being transmitted.		
☐	☐	☐
W 2G 32	1098 81	1099 A 80
☐	☐	☐
1099 B 79	1099-DIV 91	☒
1099-G 86	1099-INT 92	☐
☐	☐	☐
1099-MISC 95	1099-OLD 96	1099-PATR 97
☐	☐	☐
1099-R 98	1099-S 75	5498 28

Under penalties of perjury, I declare that I have examined this return and accompanying documents and, to the best of my knowledge and belief, they are true, correct, and complete. In the case of documents without recipients' identification numbers, I have complied with the requirements of the law in attempting to secure such numbers from the recipients.

Signature Lois W. Manchester Title District Clerk Date 2/10/89

Please return this entire page to the Internal Revenue Service. Photocopies are NOT acceptable.

Instructions

Change You Should Note.—Form 1096 is now used to transmit new **Form 1099-S**, Statement for Recipients of Proceeds From Real Estate Transactions.

Purpose of Form.—Use this form to transmit Forms W-2G, 1098, 1099, and 5498 to the Internal Revenue Service.

Completing Form 1096.—If you have received a preprinted label from IRS, place it in the name and address area of the form using the brackets as indicators. Make any necessary corrections to your name and address on the label. However, do not use the label if the taxpayer identification number (TIN) shown is incorrect. If you are not using a preprinted label, enter the filer's name, address, and TIN in the spaces provided on the form. A filer includes a payer, a recipient of mortgage interest payments, a broker, a barter exchange, a person reporting real estate transactions, a trustee or issuer of an individual retirement arrangement (including an IRA or SEP), and a lender who acquires an interest in secured property or who has reason to know that the property has been abandoned. Individuals not in a trade or business should enter their social security number in Box 2; sole proprietors and all others should enter their employer identification number in Box 1. However, sole proprietors who are not required to have an employer identification number should enter their social security number in Box 2.

Group the forms by form number and submit each group with a separate Form 1096. For example, if you must file both Forms 1099-DIV and Forms 1099-INT, complete one Form 1096 to transmit your Forms 1099-DIV and another Form 1096 to transmit your Forms 1099-INT.

In Box 3, enter the number of forms you are transmitting with this Form 1096. Do not include blank or voided forms in your total. Enter the number of correctly completed forms, not the number of pages, being transmitted. For example, if you send one page of three-to-a-page Forms 5498 with a Form 1096 and you have correctly completed two Forms 5498 on that page, enter 2 in Box 3 of Form 1096. Check the appropriate box to indicate the type of form you are transmitting.

No entry is required in Box 5 if you are filing Form 1099-A or 1099-G. For all other forms, enter in Box 5 of Form 1096 the total of the amounts from the specific boxes of the forms listed below:

Form W-2G	Box 1
Form 1098	Box 1
Form 1099-B	Boxes 2, 3, and 6
Form 1099-DIV	Boxes 1, 8, and 9
Form 1099-INT	Boxes 1 and 3
Form 1099-MISC	Boxes 1, 2, 3, 5, 6, 7, and 8
Form 1099-OLD	Boxes 1 and 2
Form 1099-PATR	Boxes 1, 2, 3, and 5
Form 1099-R	Boxes 1 and 8
Form 1099-S	Box 2
Form 5498	Boxes 1 and 2

If you are filing a Form 1096 for corrected information returns, enter an "X" in the CORRECTED box at the top of this form.

For more information about filing, see the separate Instructions for Forms 1099, 1098, 5498, 1096, and W-2G

☐ VOID☐ CORRECTED

PAYER'S name, street address, city, state, and ZIP code Clarke Soil & Water Conservation District 820A N. Main Street Osceola, IA 50213		1 Unemployment compensation \$ 2 State or local income tax refunds \$	OMB No. 1545-0120 1988 Statement for Recipients of	Certain Government Payments Copy C For Payer For Paperwork Reduction Act Notice and instructions for completing this form, see Instructions for Forms 1099, 1098, 5498, 1096, and W-2G.
PAYER'S Federal identification number 42-1211481	RECIPIENT'S identification number 42-6170296	3 Refund is for tax year	4 Federal income tax withheld \$	
RECIPIENT'S name (first, middle, last) Ralph Gilbert Trust Fay R. Grizzell, Trustee		5 Discharge of indebtedness \$	6 Taxable grants \$	
Street address 6634 Danville Avenue		7 Agriculture payments \$ 9,151.79	8 The amount in Box 2 applies to income from a trade or business ☐	
City, state, and ZIP code San Diego, CA 92120				
Account number (optional)				

Form **1099-G**

Department of the Treasury - Internal Revenue Service

☐ VOID☐ CORRECTED

PAYER'S name, street address, city, state, and ZIP code Clarke Soil & Water Conservation District 820A N. Main St. Osceola, IA 50213		1 Unemployment compensation \$ 2 State or local income tax refunds \$	OMB No. 1545-0120 1988 Statement for Recipients of	Certain Government Payments Copy C For Payer For Paperwork Reduction Act Notice and instructions for completing this form, see Instructions for Forms 1099, 1098, 5498, 1096, and W-2G.
PAYER'S Federal identification number 42-1211481	RECIPIENT'S identification number 481-50-2350	3 Refund is for tax year	4 Federal income tax withheld \$	
RECIPIENT'S name (first, middle, last) Marlow Peterson		5 Discharge of indebtedness \$	6 Taxable grants \$	
Street address R.R. 2		7 Agriculture payments \$ 4,495.75	8 The amount in Box 2 applies to income from a trade or business ☐	
City, state, and ZIP code Osceola, IA 50213				
Account number (optional)				

Form **1099-G**

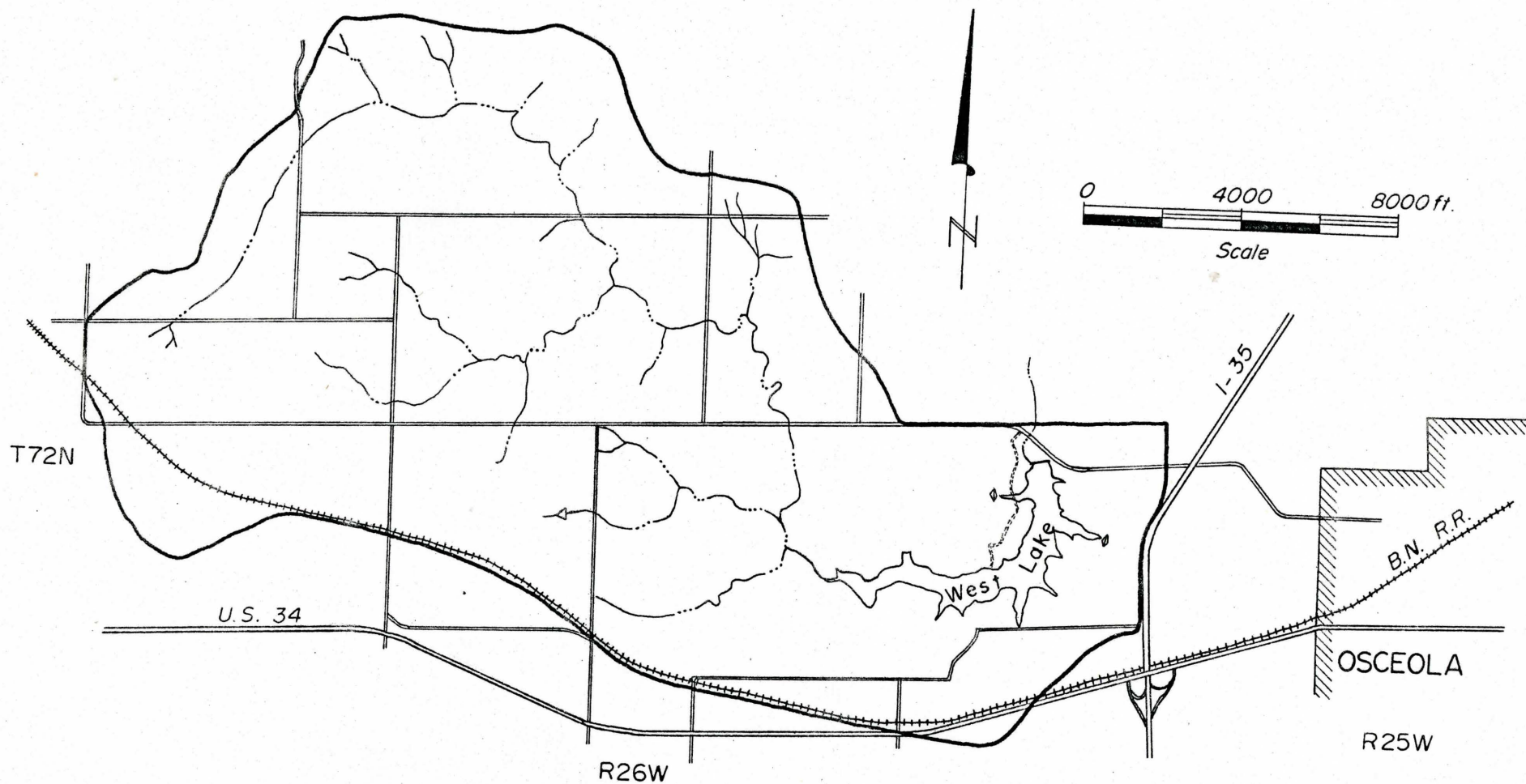
Department of the Treasury - Internal Revenue Service

☐ VOID☐ CORRECTED

PAYER'S name, street address, city, state, and ZIP code Clarke Soil & Water Conservation District 820A N. Main Street Osceola, IA 50213		1 Unemployment compensation \$ 2 State or local income tax refunds \$	OMB No. 1545-0120 1988 Statement for Recipients of	Certain Government Payments Copy C For Payer For Paperwork Reduction Act Notice and instructions for completing this form, see Instructions for Forms 1099, 1098, 5498, 1096, and W-2G.
PAYER'S Federal identification number 42-1211481	RECIPIENT'S identification number 480-42-1160	3 Refund is for tax year	4 Federal income tax withheld \$	
RECIPIENT'S name (first, middle, last) Jack Nish		5 Discharge of indebtedness \$	6 Taxable grants \$	
Street address R.R. 2		7 Agriculture payments \$ 6,869.32	8 The amount in Box 2 applies to income from a trade or business ☐	
City, state, and ZIP code Osceola, IA 50213				
Account number (optional)				

Form **1099-G**

Department of the Treasury - Internal Revenue Service



MEASURE PLAN MAP

WEST LAKE

RC&D MEASURE COMPLETION REPORT

(See Instructions on Page 4)

RC&D Area Name: Southern Iowa

State: Iowa

RC&D Measure Name: West Lake Water Volume Survey

1. Measure ID No.: (State Code, RC&D No., County No., Measure No. - 2, 4, 3, and 3 digits respectively)
1 9 6 0 0 2 0 3 9 0 2 9
2. TSC Code: (Northeast - 1; South - 2; Midwest - 3; West - 4) 3
3. Measure Code(s): (i.e., 803, 807, 815, etc. - last two digits)
8 5 6
4. a. Date Measure Adopted: (i.e., March 1975 -
0 3 7 5)
b. Date Measure Planned: (RC&D Fin. Asst. Only)
c. Date Measure Completed:
0 8 7 7
5. Type Measure Sponsor(s) Code: (See item 5 of Instructions)
3
6. Type Special District Code: (See item 6 of Instructions)
7. Total Number of Measure Sponsors: 1
8. a. Total Man Years Created During Construction: 1
b. Total Man Years Annually to Maintain Measure:
9. RC&D Financial Assistance:
10. a. Other Federal Assistance:
b. Agency Code for 10a: (See item 10b of Instructions)
11. State and Local Government Costs:
12. Other Non-federal Costs:
13. Role of the RC&D Council or Sponsors:
(from item 16, Highlights - See item 13 of Instructions)
1 2 3 4
14. Enter Number of Text Cards That Follow:
(Washington Office Use Only)
15. Card Type: A
16. Highlights of Measure: (See item 16 of Instructions. Type or print narrative on Page 2.)

RC&D MEASURE COMPLETION REPORT

(Instructions for Washington Office Only - For each narrative card, insert Measure ID No. from Item 1 in blocks 1 through 12.)

RC&D Area Name: Southern Iowa

RC&D Measure Name: West Lake Water Volume Survey

Highlights of Measure

Determine water volume in West Lake and available source for use as industrial and municipal water supply for the City of Osceola.

1. Measure ID No. (State Code, RC&D No., County No., Measure No. - 2, 3, and 4 digits respectively)

2. Type Code: (See instructions)

3. Measure Code(s): (1.e., 803, 807, 812, etc. - last two digits)

4. Date Measure Adopted: (1.e., March 1972)

5. Date Measure Planned: (RC&D P(n. Assn. Only)

6. Date Measure Completed:

7. Type Measure Sponsor(s) Code: (See item 2 of instructions)

8. Type Special District Code: (See item 6 of instructions)

9. Total Number of Measure Sponsors:

10. Total Man Years Cleared During Construction:

11. Total Man Years Annually to Maintain Measure:

12. RC&D Financial Assistance:

13. Other Federal Assistance:

14. Agency Code for ID# (See item 10 of instructions)

15. State and Local Government Costs:

16. Other Non-Federal Costs:

17. Role of the RC&D Council or Sponsor:

18. From item 17, Highlights - See item 13 of instructions

19. Enter number of Test Cards Used Below (Washington Office Use Only)

20. Card Type:

21. Highlights of Measure: (See item 10 of instructions)

RC&D MEASURE

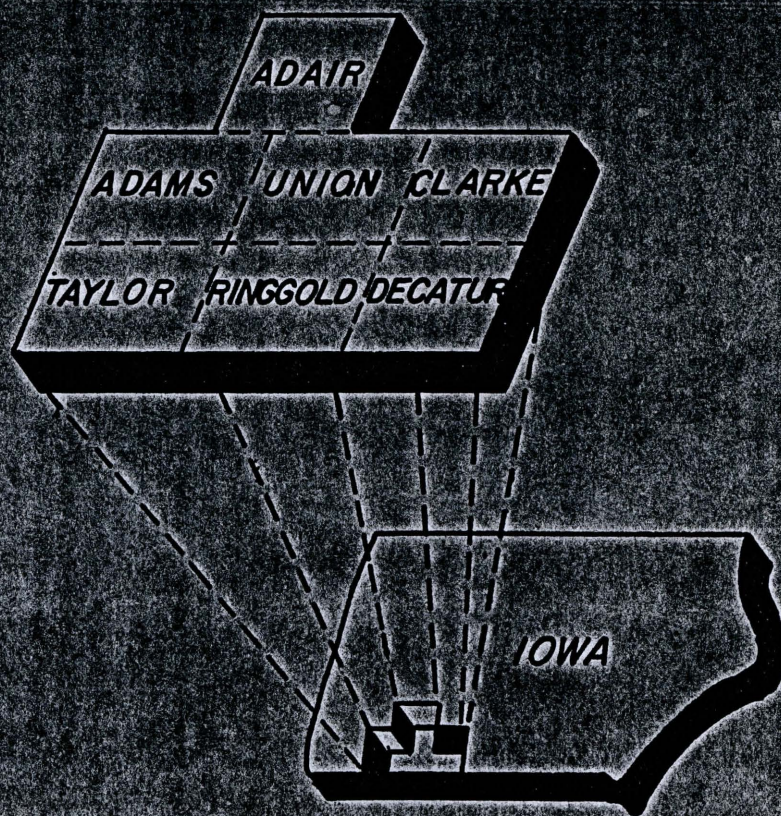
WEST LAKE

WATER QUALITY MANAGEMENT

RC&D MEASURE PLAN
19-6002-039-014

CLARKE COUNTY, IOWA

SOUTHERN IOWA RESOURCE CONSERVATION AND DEVELOPMENT AREA



April, 1981

WEST LAKE
WATER QUALITY MANAGEMENT

RC&D MEASURE PLAN
19-6002-039-014

CLARKE COUNTY, IOWA

Sponsored By:

CITY OF OSCEOLA
Board of Waterworks Trustees

and

CLARKE COUNTY SOIL CONSERVATION DISTRICT
CLARKE COUNTY, IOWA

SOUTHERN IOWA
RESOURCE CONSERVATION AND DEVELOPMENT
AREA

Prepared with assistance from:

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DES MOINES, IOWA

April, 1981

Prepared under authority of Section 102 of the Food and Agriculture Act of 1962 (Public Law 87-703), Soil Conservation Act of April 27, 1935, (16 U.S.C. 590 a-f).

WEST LAKE
WATER QUALITY MANAGEMENT
RC&D MEASURE PLAN

I. PLANNING AREA AND RESOURCES

A. The Planning Area

The West Lake measure planning area covers approximately 6,350 acres in Clarke County, Iowa. Clarke County is located in the northeast part of the seven county RC&D planning area. West Lake is located approximately two miles northwest of Osceola, a major rural trade center in south central Iowa and the county seat of Clarke County.

Approximately 5,000 people, numerous businesses and light industry depend on West Lake for their municipal and industrial water supply. West Lake is the only source of water for the city of Osceola and approximately 100 rural users. It is the only major impoundment in the county. In addition, the lake provides many days of recreation in the form of fishing, hunting, boating, etc.

The area draining into the lake contains 35 farm units. Land use is as follows:

Cropland	5010 acres
Pastureland	836 acres
Other*	504 acres
	6350 acres

*Includes 162 acres of water in the reservoir and the remainder is in farmsteads, roads, woodlands, etc.

B. Evaluation of Resource Capabilities

Sediment and attached nutrients are the major water quality problems in West Lake. Sediment reduces the reservoir storage capacity and results in additional water treatment costs due to increased back-flushing of water filters.

It is estimated 30 to 40 acre feet of water is being displaced by sediment each year. A recent water volume survey of West Lake indicates the water capacity to be 1370 acre feet when the reservoir is full. At the present rate of deposition, the effective life expectancy will be approximately 20 years during periods of low runoff.

Nutrient enriched water results in algal blooms due to concentrations of nitrogen and phosphorus. The city of Osceola water department treats West Lake with an Algaecide. This treatment has been effective in controlling algae and has minimized taste and odor problems from algae.

Ground water is not a viable water supply alternative or supplement to West Lake. Shallow wells have inadequate water yields and are usually contaminated with nitrates and coliform bacteria. The Jordan aquifer exists over most of the region at a depth of about 2,500 to 3,000 feet below the ground surface. Limited well data from southwestern Iowa indicates that wells in the Jordan aquifer yield from 100 to 300 gallons per minute. The water in the Jordan aquifer is highly mineralized and does not generally meet the U. S. Public Health Service standards for drinking water. Well yields in the Mississippian aquifer in southwestern Iowa are generally low. Like the wells in the Jordan aquifer, the wells tapping the Mississippian system in the seven county area yield water which does not generally meet U. S. Public Health Service Standards for drinking water.

Topography is gently sloping on ridge tops with strong moderately steep side slopes. Predominant soils within the area are Haig, Grundy and Shelby.

At present it is estimated that soil loss averages from 10 tons per acre per year on the gentle slopes up to 26 tons per acre per year on the steeper slopes. It is estimated the average soil loss is 12 tons per acre per year. Approximately 132,400 tons of soil are lost annually from the uplands due to sheet and rill erosion. About 2,700 tons are eroded annually by gully and stream erosion. The estimated average annual sediment yield to West Lake is 44,900 tons.

Deposition of sediment is affecting the fish and wildlife aspects of the reservoir and surrounding area. People are hesitant to use the area for recreation as shallow water is making the area attractive to mosquitoes and other insects. Visual quality is also adversely affected.

An opportunity exists to greatly reduce the amount of nutrient enriched sediment reaching West Lake by applying best management practices especially on the cropland.

<u>SEDIMENT</u>			
SOURCE	PRESENT T/Yr.	WITH PROJECT T/Yr.	REDUCTION T/Yr.
Gully	2,300	600	1,700
Sheet and Rill	42,600	3,200	39,400
Total	44,900	3,800	41,100

II. PLANNING OBJECTIVES AND ALTERNATIVES

A. Sponsor Objectives

Primary objectives of the sponsors is to improve water quality and prolong the life expectancy of the reservoir by reducing sediment and nutrients delivered to the lake. They want to provide the community with better quality and a more stable water supply. This will improve the standard of living for the area. West Lake will also become more attractive for recreational uses.

The purpose for which RC&D financial and technical assistance is requested is water quality management.

This is consistent with the objectives in the short term plan of the Southern Iowa Resource Conservation and Development area plan Supplement #1 dated September, 1977.

B. Alternative Planning Considerations

Measure sponsors first considered no action. This would not meet sponsors objectives since the water quality would continue to deteriorate and the lake fill with sediment.

A second alternative is to install sediment basins in tributaries draining into West Lake. Erosion would continue in the uplands and sediments would continue to be delivered to the basins and eventually fill them with sediment.

A third alternative is to construct a new municipal water reservoir. This would be very costly, and the drainage area above this new reservoir would need a land treatment program to reduce sedimentation.

The fourth alternative is to apply best management practices on land within the drainage area of West Lake. Best management practices are the most effective means to maintain or enhance water quality and reduce water storage volume loss from sediment in West Lake. Measure sponsors selected this alternative as the most acceptable.

Selected Plan Accounts are displayed as follows:

NATIONAL ECONOMIC DEVELOPMENT ACCOUNT

COMPONENTS

MEASURES OF EFFECTS 1/

Beneficial effects:

A. The value to users of increased outputs of goods and services

1. Sediment
2. Best Management Practices

Total beneficial effects

\$ 71,930

88,840

\$160,770

COMPONENTS

MEASURES OF EFFECTS 1/

Adverse effects:

A. The value of resources required for a plan.

1. Installation costs \$ 45,080 2/
2. Administration 520
3. Operation & Maintenance 2,680

Total Adverse effects \$ 48,280

Net Beneficial Effects \$112,490

1/ Average Annual

2/ Price base December 1980; amortized for 50 years at 7 3/8 percent interest.

ENVIRONMENTAL QUALITY ACCOUNT

COMPONENTS

MEASURES OF EFFECTS

COMPONENTS

MEASURES OF EFFECTS

Beneficial & adverse effects:

A. Areas of natural beauty

B. Quality consideration of water, land, and air resources.

1. Improve visual diversity on areas terraced.

1. Prevent soil depletion on 4,420 acres of eroding land.

2. Prevent 47,100 tons of sediment annually and associated pesticides and nutrients from entering the water supply lake of Osceola.

3. Prevent the loss of 174 acres of prime farmland.

C. Biological resources

1. Improve water quality in West Lake for fish.

REGIONAL DEVELOPMENT ACCOUNT

COMPONENTS

MEASURE OF EFFECTS 1/
STATE OF REST OF
IOWA NATION

Income

Beneficial effects:

A. The value of increased output of goods and services to users residing in the region.

1. Sediment	\$ 71,930	\$ 0
2. Best Management Practices	<u>88,840</u>	<u>\$ 0</u>
Total beneficial effects:	\$160,770	\$ 0

COMPONENTS

MEASURE OF EFFECTS 1/
STATE OF REST OF
IOWA NATION

Income:

Adverse effects:

A. The value of resources contributed from within the region to achieve the outputs.

1. Installation Costs	\$10,530 2/	\$34,550 2/
2. Administration	50 2/	470 2/
3. Operation & Maintenance	<u>2,680</u>	<u>--</u>

Total adverse effects: \$13,260 \$35,020

Net beneficial effects: \$147,510 - \$35,020

1/ Average annual

2/ Price Base December 1980; amortized for 50 years at 7 3/8 percent interest.

COMPONENTSMEASURES OF EFFECTS
STATE OF REST OF
IOWA NATION

Employment

Beneficial effects:

A. Increase on number &
types of jobs.1. Employment for project
construction1110 man-days of skilled
and semi-skilled jobs.2. Employment for project
O & M5 man-days semi-skilled
jobs per year.

Population Distribution

Project measure will not
have a significant effect
on population.COMPONENTSMEASURES OF EFFECTS
STATE OF REST OF
IOWA NATION

SOCIAL WELL BEING ACCOUNT

COMPONENTS

Beneficial and Adverse effects:

A. Real Income Distribution

B. Life, Health, and Safety

MEASURES OF EFFECTS

1. Create 1110 man-days of skilled and semi-skilled jobs.
1. Improve water quality in West Lake by preventing nutrients attached to sediments from entering the water supply lake.

III. INSTALLATION OF THE SELECTED PLAN

A. What Will Be Installed

Best management practices will be installed as planned in resource plans developed by the landowners in cooperation with the Clarke County Soil Conservation District. These plans will provide for resource management systems for protecting water quality from erosion as described in Section IV of the Technical Guide prepared for the Clarke County Soil Conservation District. Best management practices are as follows:

Work To Be Installed	Unit	Installation Schedule		
		1981	1982	1983
A. Terraces	Ft.	75,000	50,000	25,000
B. Grade Stabilization Structures	No.	2	2	2
C. Conservation Tillage System	Ac.	2,210	1,475	735

B. Installation Costs

The cost of installing this measure is approximately \$600,850. The estimated costs are shown in Table 1. In determining final costs to be borne by each party, the actual costs incurred in the installation of the best management practices will be used.

The Soil Conservation Service will comply with regulations and executive orders for protection of cultural properties.

1. Construction Costs - Costs for installing the best management practices will be cost shared 75 percent from RC&D funds and 25 percent from local funds. These costs are estimated to be \$555,000.
2. Engineering Costs - These costs will be provided from RC&D funds. They are estimated to be \$38,900.
3. Administrative Costs - The Service and the sponsors will each pay the administrative costs which they incur. They are estimated to be \$6,950.

Operation and maintenance work will normally include items such as:

1. Re-establish vegetative cover on the earthfill, emergency spillways and terrace backslopes.
2. Replace or repair damaged sections of tile and principal spillways.
3. Replace soil removed by erosion and rodents on the earthfills, terraces and emergency spillways.

Inspections of the improvements will be made annually by the Clarke County Soil Conservation District and Service for a period of three years. Additional inspections will be carried out following a severe storm or any other unusual condition that might affect the works of improvement. Service personnel may assist the sponsors in their inspections at the discretion of the State Conservationist. Upon request, the Clarke County Soil Conservation District will provide technical assistance to the extent its resources permit for needed maintenance work. Operation and maintenance work will be assumed by the landowner on whose land the works of improvement are installed.

Estimated annual operation and maintenance cost is \$2,680.

V. UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION ACT

The measure sponsor assures that comparable replacement dwellings will be available for individuals and persons displaced from dwellings, and will provide relocation assistance advisory services and relocation assistance, make the relocation payments to displaced persons, and otherwise comply with the real property acquisition policies contained in the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, 84 Stat. 1894) effective as of January 2, 1971, and the Regulations issued by the Secretary of Agriculture pursuant thereto.

The costs of relocation payments will be shared by the measure sponsors and the Service as follows:

	<u>Measure Sponsors</u>	<u>Service</u>	<u>Estimated Relocation Payment Costs</u>
	(percent)	(percent)	(dollars)
Relocation Payments	23.3	76.7	00

Investigation has disclosed that under present conditions the RC&D measures will not result in the displacement of any person, business or farm operation. However, if relocations become necessary, relocation payments will be cost-shared in accordance with percentages shown.

VI. MUTUALLY AGREEABLE PLAN

Through a request of the Clarke County Soil Conservation District, city of Osceola, Board of Waterworks Trustees, and the Service, this mutually agreeable RC&D measure plan has been completed. This RC&D measure has been adopted by the Southern Iowa Resource Conservation and Development Area Executive Board and included in the area plan as a means to accomplishing objectives of the area plan.

VII. AGREEMENT REQUIRED TO OBLIGATE FUNDS

This is not a fund-obligating document. Financial and other assistance to be furnished by SCS in carrying out the work in this plan is contingent upon the appropriation of funds for this purpose.

A separate agreement will be entered into between the Service and the sponsors before either party initiates work involving funds of the other party. Such agreement will set forth in detail the financial and working arrangements and other conditions that are applicable to the specific improvements to be installed.

VIII. COMPLIANCE WITH CIVIL RIGHTS ACT

The program conducted will be in compliance with all requirements nondiscrimination as contained in the Civil Rights Act of 1964 and the Regulations of the Secretary of Agriculture (7 C.F.R. Sec. 15. 1-15.12) which provide that no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any activity receiving Federal financial assistance.

IX. NO MEMBER OF CONGRESS TO BENEFIT

No member or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this agreement, or to any benefit that may arise therefrom: but this provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.

This measure plan may be amended, revised, or terminated only by mutual agreement of the parties hereto, except for cause.

CITY OF OSCEOLA
Board of Waterworks Trustees

By 1st Fred J. Wood Date 4-8-81

Title Chairman

Authorized by a resolution of the city of Osceola, Clarke County, Iowa,
at a meeting held on 4-8-81.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

By 1st Richard Carson Date 4-8-81

Title Chairman

Authorized by a resolution of the Clarke County Soil Conservation District
at a meeting held on 4-8-81.

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

By 1st William J. Brune
State Conservationist

Date 4-9-81

TABLE I - ESTIMATED COST

WEST LAKE
WATER QUALITY MANAGEMENT
RC&D MEASURE PLAN

COST ITEM	ESTIMATED COST (DOLLARS) 1/		TOTAL
	RC&D FUNDS	OTHER FUNDS	
	NON-FED	NON-FED	
	LAND	LAND	
<u>CONSTRUCTION</u> 2/ Best Management Practices	\$416,250	\$138,750	\$555,000
<u>ENGINEERING</u>	38,900	--	38,900
<u>ADMINISTRATION</u>	6,250	700	6,950
<u>LAND RIGHTS</u>	--	--	--
<u>TOTAL COSTS</u>	\$461,400	139,450	\$600,850

1/ Price Base: December, 1980

April, 1981

2/ Includes the cost of constructing BMP practices plus associated vegetative work
See RCDH Appendix 102.10 (f) -2

TABLE 2 - ANNUAL COSTS

WEST LAKE
WATER QUALITY MANGEMENT
RC&D MEASURE PLAN(Dollars) 1/

Structural Measure	Amortization of Installation Cost	Operation Maintenance and Replacement	Total
Best Management Practices	\$45,080	\$2,680	\$47,760
Administration	\$ 520	--	\$ 520
Total	\$45,600	\$2,680	\$48,280

1/ Price Base: Installation costs are based on December, 1980 price level and are amortized at 7 3/8 percent over 50 years. Operation and maintenance costs are based on current prices.

Date: April, 1981

TABLE 3 - COMPARISON OF BENEFITS AND COSTS

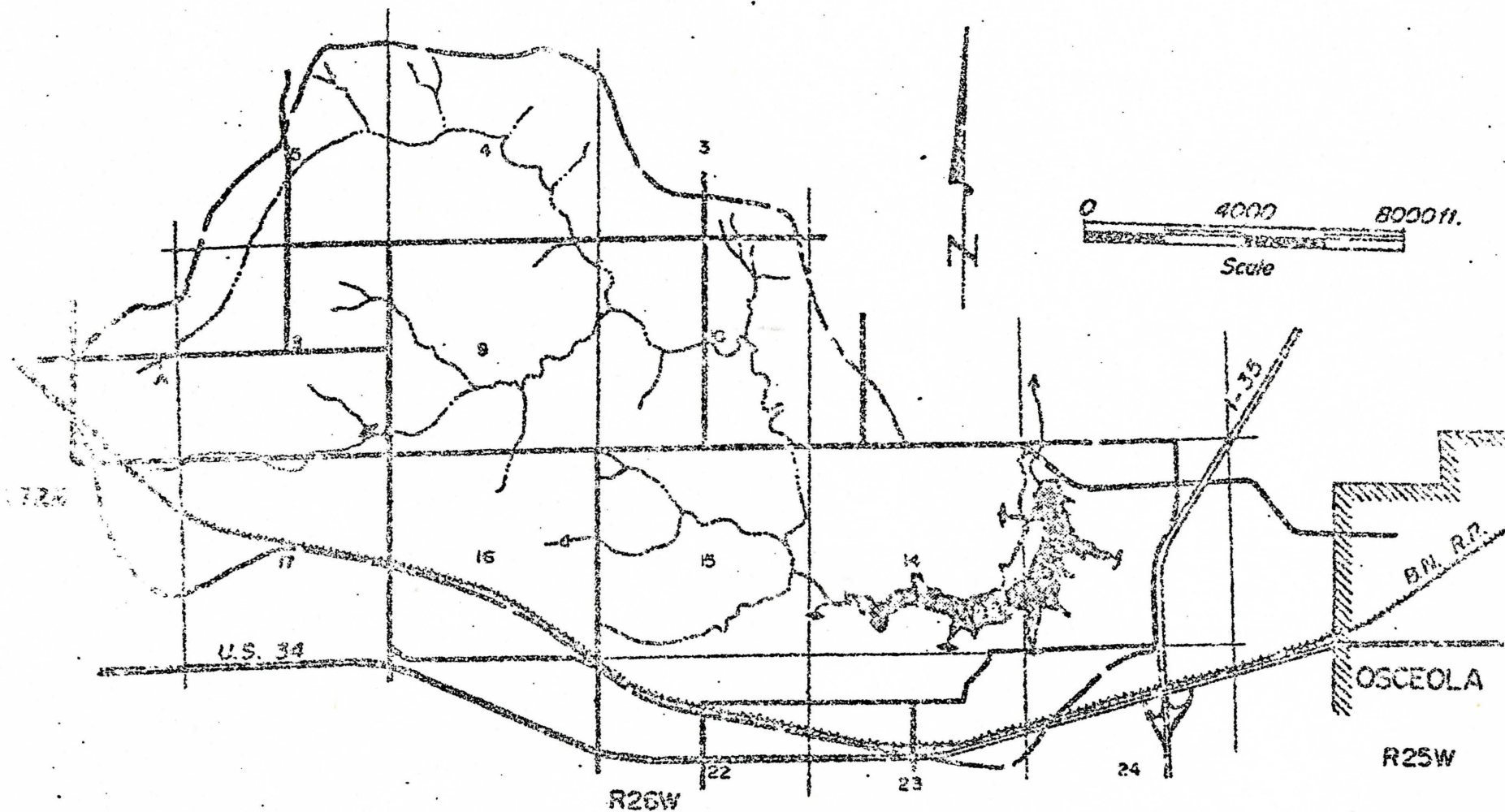
WEST LAKE
WATER QUALITY MANAGEMENT
R&D MEASURE PLAN

(Dollars) 1/

	Average Annual Benefits		Total Average	Average Annual Cost	Benefit Cost Ratio
	Sediment	Best Management Practices			
Structural Measures					
Best Management Practices	\$71,930	\$88,840	\$160,770	\$47,760	3.4 to 1.0
Administration				\$ 520	
Total	\$71,930	\$88,840	\$160,770	\$48,280	3.3 to 1.0

Price Base: Prices of December, 1980 for benefits: costs from Table 2.

Date: April, 1981



LEGEND

DRAINAGE AREA
 SECTION LINES
 SECTION NO. 20
 PROPOSED STRUCTURE SITE

MEASURE PLAN MAP WEST LAKE CLARKE COUNTY

S.C.S. IOWA - WESTLAKE

FIELD NOTES

Index

Note Bench Marks are numbered within each Level Loop Series for example TBM 101 is in level loop 100.

Level Loop Series Pages

Give Bench Desc & Sketch of Routes

100	5
200	6-8
300	9-16
400	17-20
500	21-26
600	27-37
700	38-42
800	43-46
900	47-48
1000	49-50
1100	51-
	52-53

0.05 Miles

Error of Closure	Dist	Allowable Error
See Loop 400		
0.02 ft	2 3/4 Miles	0.08 ft
0.05 ft	2 3/4 Miles	0.08 ft
0.07 ft	7 3/4 Miles	0.14 ft
0.11 ft	10 1/2 Miles	0.16 ft
0.06 ft	5 1/4 Miles	0.11 ft
0.02 ft	4 Miles	0.10 ft
0.03 ft	1 Miles	0.05 ft
0.00 ft	1 Mile	0.05 ft
0.02 ft	1 Mile	0.05 ft
0.04 ft	1 Mile	0.05 ft

Index

Note Bench Marks are numbered within each Level Loop Series for example TBM 101 is in Level Loop 100.

Level Loop Series Pages

Govt Bench Desc & Sketch of Routes	5
100	6-9
200	9-16
300	17-20
400	21-26
500	27-37
600	38-42
700	43-46
800	47-48
900	49-50
1000	51-
1100	52-53

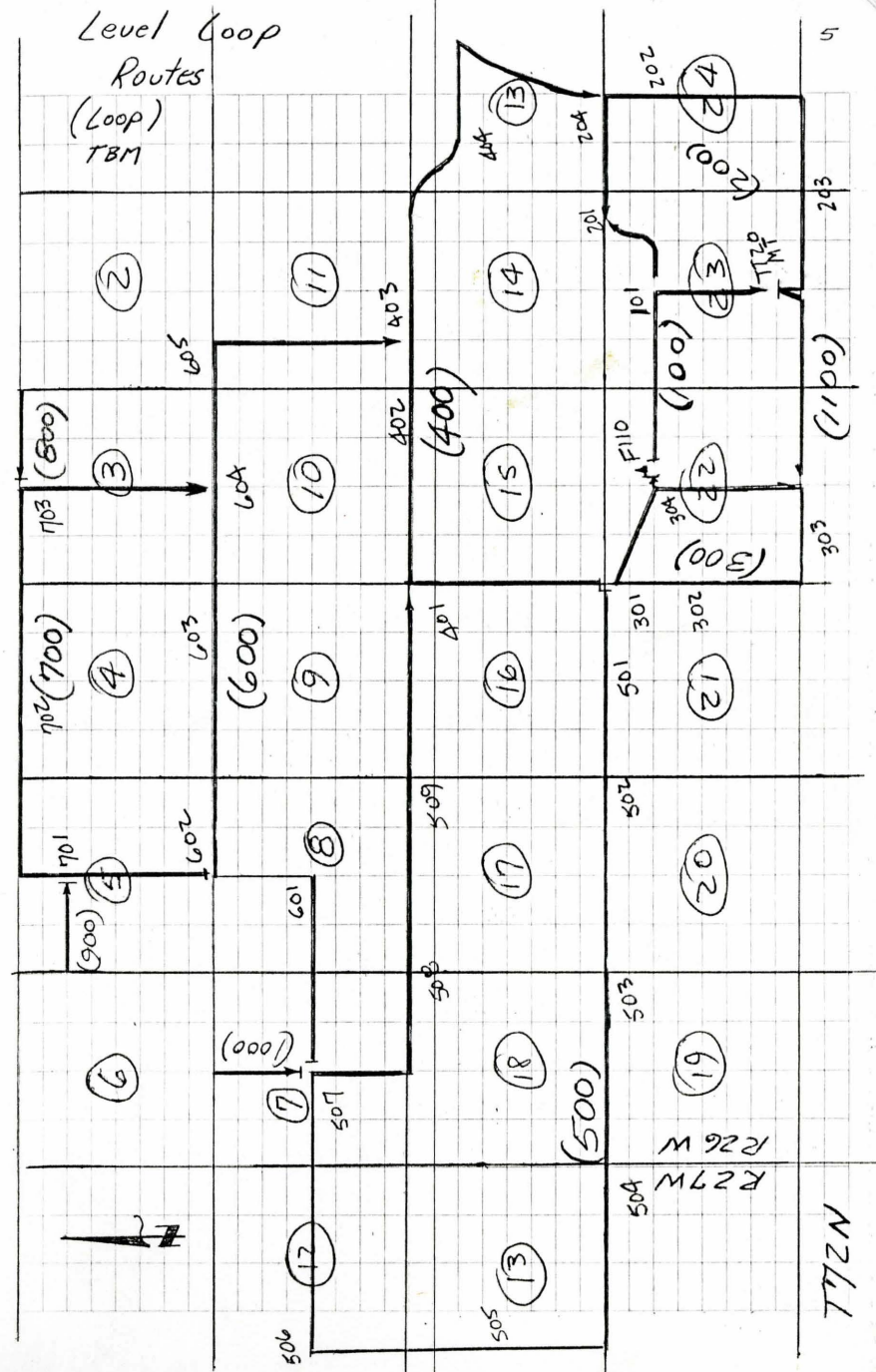
0.05 Miles

Error of Closure	Dist	Allowable Error
See Loop 400		
0.02 ft	2 ³ / ₄ Miles	0.08 ft
0.05 ft	2 ³ / ₄ Miles	0.08 ft
0.07 ft	7 ³ / ₄ Miles	0.14 ft
0.11 ft	10 ¹ / ₂ Miles	0.16 ft
0.06 ft	5 ¹ / ₄ Miles	0.11 ft
0.02 ft	4 Miles	0.10 ft
0.03 ft	1 Miles	0.05 ft
0.00 ft	1 Mile	0.05 ft
0.02 ft	1 Mile	0.05 ft
0.04 ft	1 Mile	0.05 ft

Govt. Bench Mark Descriptions

F110-1935 1153.069 Elev. 3.5 Miles West along
CB&QR FROM STATION AT OSCEOLA,
9 POLES EAST OF MILE POST 364,
66' SOUTH OF CENTERLINE OF SOUTH TRACK,
49' SOUTHWEST OF POLE WITH 2 GUY WIRES,
AT A CULVERT UNDER U.S. 34, IN THE
CENTER OF TOP OF NORTH HEADWALL,

TT 20-MT 1950 1123.886 ELEV.,
1 MILE SOUTH AND 3 MILES WEST
OF OSCEOLA, AT 1/4 COR. SECTIONS
23 & 26 T 72 N - R 26 W, 355'
NORTH OF CROSS ROADS, 33' EAST
OF ROAD, 4' NORTH OF TELEPHONE
POLE, IN CONCRETE POST.



Vertical Control Loop 100

USC & G				1153.07
2-61-2V	4.39	1157.46	4.15	1153.31 1153.31
2-61-3V	1.83	1155.14	16.20	1138.94 1138.94
	15.96	1154.90	10.95	1143.95
2-61-4V	3.30	1147.25	8.15	1139.10 1139.10
	11.56	1150.66	0.33	1150.33
2-61-5V	5.45	1155.78	8.14	1147.64 1147.63
	5.12	1152.76	12.77	1139.99
	1.40	1141.39	12.49	1128.90
	0.52	1129.42 1128.38	12.61	1118.81
2-59-2V	0.35	1118.16	16.25	1100.91 1100.90
	(+49.88)		-102.04	-52.16

June 2, 1980

PC. WAT, Windy

Proert
Otte
Gibson

6

F110 1235

(-0.2)

& Dirt Road 4/w Farm Drive North

(-0.2)

& Gate in E-W Fence

& Gravel Road 4/w Drive South

& Gravel Road oppo Field Entrance South

(-0.2)
Center of DAM

	Loop	100	(Cont)	
(71) Z-59-2V			1100.91	1100.90
	16.39	1117.30		
			0.49	1116.81
	12.57	² 1139.38		
			0.75	1128.63
	12.36	1140.99		
			1.64	1139.35
	12.69	1152.04		
			4.38	1147.66
	0.20	1147.86		
			12.86	1135.00
(65) SET TBM 101	1.58	1136.58		
			10.99	1125.59 1125.58
	3.78	1129.37		
(1) Z-59-1V			7.51	1121.86 1121.85
	11.94	1133.80		
			0.27	1133.53
	12.93	1146.46		
			0.51	1145.95
	10.11	1156.06		
(9) 81-43-3V			6.53	1149.53 1149.52
	(+94.55		-45.93	+48.62)

See Previous Page

RR Spike in PP SW of T Rds near North Center 1/4
Corner Sec 23, T 72 N, R 26

(-0.2)

E E E T Roads South

E N-S Gravel Road E E Old Hwy 34 West

Loop 100 (Cont)

1149.53

2.26 1151.79

2.00 1149.79

5.23 1155.02

12.36 1142.66

1.68 1144.34

(8)
1-43-4V

5.1 1139.2 1139.2

12.32 1132.02

0.85 1132.87

(9)
BM940 1123.47 1123.46
~~1123.07~~

E Rd E Farm Drive West

TI 20 MT 1950 (1123.89 Published)

2 3/4 Miles

(+10.02

- 36.08

+26.06)

Level Loop 200

(65)

TBM 101

1125.59 1125.58

0.48 1126.07

11.19 1114.88

10.45 1125.33

0.39 1124.94

12.10 1137.04

0.19 1136.85

7.10 1143.95

6.82 1137.13

2.20 1139.33

12.66 1126.67

0.42 1127.09

(59)

Z-59-SV

10.21 1116.88 1116.86

9.75 1126.63

(58)

SET
TBM 201

2.99 1123.64 1123.64²

1.26 1124.90

12.12 1112.78

0.85 1113.63

12.85 1100.78
26.48

0.43 1118.21

12.59 1088.62

45.04

82.01 -36.97

June 3, 1980
Clear, Hot, Breez

Proett
Otte
Gibson

9

{ 4 Farm Dr 4w Gate (S side Cedar Tree
{ RR Spike in PP ± 800 W of H₂ NE
Cor Sec 23, T 72 R 26

Level Loop 200 (Cont)

			108 ⁸ 7.62
	0.37	108 ⁸ 7.99	
	12.01	108 ⁸ 7.29	12.71 107 ⁶ 7.28
			0.65 108 ⁷ 7.64
2-59-3V	8.80	109 ⁶ 7.44	
2-59-3V			1.95 109 ⁴ 7.49
	1.93	109 ⁶ 7.42	
			0.62 109 ⁵ 7.80
	12.25	110 ⁸ 7.05	
			0.38 110 ⁷ 7.67
	13.00	111 ²⁰ 7.67	
			12.24 110 ⁸ 7.43
	4.13	111 ² 7.56	
			0.69 111 ¹ 7.87
	12.91	112 ⁴ 7.78	
			0.25 112 ⁴ 7.53
	12.49	113 ⁷ 7.02	
			1.33 113 ⁵ 7.69
	8.47	114 ⁴ 7.16	
2-57-4V			2.96 114 ¹ 7.20
	(+86.36	- 33.78	+52.58)

10

(-0.2)
 { S End of Clear Trail South (Area all
 fairly flat) 4w. Center of Shed ± 75 ft West)
 Note: Moved R.P. Because of Road Work

± E-W Rd opp Entrance to Farm Drive South

Level Loop Zoo (Cont)

			¹ 1148.20
2.11	³ 1148.31		
		6.86	⁶ 1138.45
3.93	⁴⁰ 1139.58		
		4.55	⁵ 1138.83
3.73	⁹ 1138.56		
		6.92	² 1138.64
2.91	1135.55		
1-41-3V		3.16	1132.39
6.17	1138.56		
		0.91	1137.65
0.31	1137.96		
		11.90	1126.06
0.75	1126.81		
		11.89	1114.92
3.64	1118.56		
		0.69	1117.87
12.47	1130.34		
1-41-4V		0.92	1129.42
10.00	1139.42		
		9.13	1130.29
+46.02		⁶ -58.93	70.91

Set RR Spike in PP SW of Intersection
of US 34 & 1st Rock Rd West of I-35
near North Center 1/4 Sec 24 T72 R26
& East bound 34 @ W end Black strip

& N-S Rock Rd 4w Field Drive (Old Road) East

Level Loop 200 (Cont)

			1130.29
0.66	1130.95		
		9.76	1121.19
11.82	1133.01		
		1.30	1131.71
12.94	1144.65		
		0.53	1144.12
12.68	1156.80		
		6.27	1150.53
4.57	1155.10		
SET TBM 203		4.16	1150.94
3.93	1154.87		
1-41-2V		6.57	1148.30
9.53	1157.83		
4.22	1157.50	4.55	1153.28
		10.08	1147.42
0.92	1148.34	11.75	1136.59
0.29	1136.88	11.41	1125.47
(+61.56		-66.38	-4.82)

RR Spike in PP SE of the T Rds South
near NW Cor Sec 25 T 72 R 26

E of "T" Rds South

1-41-14

BM

0.60 1126.07

14.97 1126.81

14.23 1111.89

1.45 1125.36 1123.89

1125.47

E "T" Rd

TT 20 MT 1950

3 1/4 Miles

Level Loop 200
Backwards to find 2H Error

BM

1123.47 1123.46

10
1-41-10

1.46 1124.93

14.99 1109.94 1109.93

14.11 1124.05

0.75 1123.30

12.45 1135.75

1.01 1134.74

11.88 1146.62

0.61 1146.01

9.84 1154.85

4.10 1150.75

15
1-41-20

4.65 1159.40

10.0 1145.4 1145.4

15.15
TBM 203

3.78 1152.82

7.36 1148.04 1149.02

4.19 1148.63

5.16 1153.79

11.57 1142.22

0.55 1142.77

12.98 1129.79

(+63.88

-57.56 +6.32)

14

± "T" Rds E

~~See page 12~~ ± "T" Rds South

~~See page 12~~ RR Spike in PP SE of
the T Rd South. Near NW Cor Sec 25
T72 R26

Loop 200 Cont

1129.79

0.99 1130.78

11.52 1119.26

10.96 1130.22

1.85 1128.37

9.79 1138.16

(21)

1-41-4V

10.66 1127.50 1127.48

0.21 1127.71

11.76 1115.95

0.53 1116.48

3.53 1112.95

12.49 1125.44

1.36 1124.08

12.35 1136.43

0.76 1135.⁶₈₇0.87 1136.⁵₈₄

(22)

1-41-3V

6.14 1130.40 1130.38

2.92 1133.32

(27)

TBM 202

2.68 1130.64 1130.62

(751.11

- 50.26 70.85)

See page 11

See page 11

See page 11

Loop 200

(Cont)

16

TBM 202

1130.64 1130.62

6.80 1137.44

4.10 1133.³⁴~~54~~

5.16 1138.50

4.29 1134.21

8.21 1142.42

Z-57-4V

3.22 1139.20 1139.18

(56)

0.85 1140.05

SET 204
TBM 200

9.98 1130.07 1130.05

1.37 1131.44

14.50 1116.94

8.93 1125.87

(58)

TBM 201

2.23 1123.64 1123.62

1.52 5.16
1128.7218.54 06.62
1103.~~58~~1.30 7.92
1104.~~88~~

Z-59-3V

15.45 1192.47 1192.45

15.34 1107.81

1.19 1106.62

18.16 1124.78

TBM 201

1.13 1123.65 1123.62

See page 10

RR & Spike in E Support Post on Large
Highway Sign (Standard 0:1) ± 1000' W of
Interstate 35 and North of Dirt Road
along South Side (Isolated error between
sec 24 13 (TBM 201 & PP Z-57-4V))

See page 9

Loop to pick up Z-59-3V

(-0.2) See Description page 10

See page 9

Level Loop 300

BM				1153.07
	4.04	1157.11		
(1) 2-61-5V			4.36	1152.75 1152.75
	6.87	1159.62		
(2) 2-61-1V			3.23	1156.39 1156.39
	7.12	1163.51		
			2.24	1161.27
(4) SET TBM 301	5.22	1166.49		
			3.52	1162.97 1162.96
	3.33	1166.30		
(3) 2-63-3V			4.12	1162.18 1162.17
	1.99	1164.17		
			12.06	1152.11
	0.62	1152.73		
			12.46	1140.27
	0.31	1140.58		
			11.01	1129.57
	0.92	1130.49		
			12.69	1117.80
	(+30.42		-65.69	-35.27)

June 4, 1980

Windy, Hot, P.C.

Proett
Gibson
Otte

17

F110 1935

± Old HWP 34 ± N-S ~~to S~~ Rock Rd to South

± Old HWP 34 ± E/W Fence South

{ RR spike in PP SW of Intersection
Old HWP 34 & N-S Road near NE Corner
Sec 21 T72 R26

± Old HWP 34 ± N-S Road

	Loop	300	(Cont)	
			1117.80	
1-45-2V	0.34	1118.14		
	1.35	1111.36	8.13	1110.01 1110.00
			12.82	1098.54
SET TBM 302	0.23	1098.77		
			11.64	1087.13 1087.11
	10.11	1097.24		
			1.20	1096.04
	12.94	1108.98		
			0.93	1108.05 1109.91
	12.23	1122.74 0.28		
			0.66	1119.62 1121.48
	11.24	1130.86 1132.72		
			11.67	1119.19
	7.16	1126.35		
			0.66	1125.69
	12.87	1138.56		
			12.21	1126.35
	0.45	1126.80		
			12.63	1114.17
	(+68.92	- 72.55	- 3.63)	

± New Hwy 34 ± ± N-S Dirt Road

{ RR Spike in Top of NW Wood Pile
on NW Lying wall on small wood bridge
± 500' South New Hwy 34 near E 1/4 Cor Sec 21
T 72 R 26

Loop 300

(Cont)

19

1114.17

(20) 1-45-1V 1.31 1115.48

9.41 1106.07 1106.04

0.57 1106.64

11.58 1095.06

0.26 1095.32

12.57 1082.75

(21) SET 1.57 1084.32

TBM 303

7.55 1076.77 1076.74

11.09 1087.86

0.27 1087.⁵⁹₆₁12.38 1099.⁷₉₈

0.31 1099.66

12.27 1111.93

0.91 1111.02

9.85 1120.87

0.75 1120.12

(22) 12.01 1132.13

1-43-1V

1.85 1130.28 1130.24

11.99 1142.27

1.24 1141.03

(+73.30

-46.44 +26.86)

E Rd 4w & Culvert

{ Top RR Spike on SE Wood Pile on NW Wing wall
on small Wood bridge near the W 1/4 Corner
along the South Line of Sec 22, T 72, R 26

E N-S Rock Rd 4w & Drive East

Loop 300

(Cont)

			1141.03	
	10.62	1151.65		
			12.03	1139.62
	⁰ 3.87	1142.69		
(20) 5 1-43-8V			5.58	1137.13
				1137.08
(30) SET 78M 304	11.10	1148.23		
			0.48	1147.75
				1174.70
	9.30	1157.05		
BM			3.93	1153.12
				1153.07

20

& New HWY 34 4/w & Rock Rd North

Found RR Spike in 2nd PP South
of old HWY 34 & West of Rock Rd near
the North Center 1/4 Corner Sec 22, T72, R26,

F110 - 1935

Level Loop 400

TBM 301			1162.97	1162.96
	2.33	1165.30		
			12.09	1153.21
	4.86	1158.07		
			0.78	1157.29
	11.55	1168.84		
(3) 2-63-4V			2.89	1165.95 1165.94
	0.67	1166.62		
			12.44	1154.18
	1.13	1155.31		
			12.80	1142.51
	7.56	1150.07		
			0.55	1149.52
	12.57	1162.09		
			0.60	1161.49
	6.70	1168.19		
(8) 2-63-SV			4.46	1163.73 1163.73
	2.43	1166.16		
			9.16	1157.00
	3.75	1160.75		
(10) SET TBM 401			6.30	1154.45 1154.45
	+53.55		-62.07	-8.52

June 4, 1980

Proett
Gibson
Otte

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WINDY, HAZY, HOT, HUMID

See page 17

Rock Rd c/w North of #2 Farm
Drives East

Rock Rd c/w Farm Drive East

RR Spike in PA SW of "T" Rd's South near
NE Cor Sec 16, T72 R26

Loop 400 (Cont)

TBM 401			1154.45	
(11)	7.08	1161.53		
3-73-1V			4.68	1156.85 1156.85
	1.01	1157.86		
(12)				
3-73-2V			12.33	1145.53 1145.53
	4.65	1150.18		
(13)				
3-73-3V			4.36	1145.82 1145.82
	10.85	1156.67		
(14)				
3-73-4V			6.55	1150.12 1150.12
	2.21	1152.33		
			12.57	1139.76
	1.50	1141.26		
			11.37	1129.89
	1.49	1131.38		
			13.00	1118.38
	0.25	1118.63		
			12.80	1105.83
	0.15	1105.98		
			12.56	1093.42
	0.22	1093.64		
(20) 11				
3-73-5V			12.40	1081.24 1081.25
	(+29.41)		-102.62	-73.21)

See previous page

E E-W Rd 1/4 Farm Drive North
(@ a "T" South)

E E-W Rd 1/4 Culvert

E E-W Rd 1/4 Fence Line North

E E E @ "T" Rd North

E Rd 1/4 Farm Drive South

(Cont)

TBY 403

1135.75

1135.77

10.57	1146.32
-------	---------

0.41

1145.91

11.53	1157.44
-------	---------

12.58

1144.⁸~~6~~

0.37	1145.23
------	---------

(32)

3-71-3V

15.68

1129.55

1129.57

1.80	1131.35
------	---------

12.79

1118.56

0.38	1118.94
------	---------

(34)

3-71-4U

6.83

112.11

1112.13

1.10	1113.21
------	---------

12.95

1100.26

0.26	1100.52
------	---------

12.41

1088.11

0.13	1088.24
------	---------

12.90

1075.34

0.40	1075.74
------	---------

12.95

1062.79

0.49	1063.28
------	---------

12.21

1051.07

(+27.03

-111.71

-84.68)

See previous page

~~(02)~~ Center line Field Entrance $\angle$ w E-W Fence

4 Rd 4w Farm Drive SSW

Loop 400 (Cont)

			1051.07	
(40)	2.90	1053.97		
2-59-40		6.73	1047.24	1047.27
	8.42	1055.66		
		0.29	1055.37	
	12.70	1068.07		
		0.24	1067.83	
	11.86	1079.69		
		0.05	1079.64	
	12.99	1092.63		
		0.28	1092.35	
	11.37	1103.72		
		0.28	1103.44	
(41)	11.69	1115.13		
SET TBM 404		2.20	1112.93	1112.96
(42)	12.56	1125.49		
2-57-14		7.53	1117.96	1117.99
	10.83	1128.79		
		0.54	1128.25	
	(195.32	-18.14	+77.18)	

E Rd 4/4 Drive NNE

{ RR Spike in Large CFP (12") @ E End of
Curve East of Dam ± 700' W of the North
Center 1/16 Corner Section 13, T72, R26

E Rd 4/4 Fence South

Loop 400 (Cont)

26

1128.25

7.43	1135.68
------	---------

(49)

2-57-2V

13.49

2
1125.19

1122.22

12.43	113 ⁺ 8.62
-------	-----------------------

0.44

$$113\overset{4}{5}.18$$

9.35	³ 1144 .53
------	-------------------------------------

5)

2-57-3v

1.40

2
1149.13

1142.16

0.45	1142.58
------	---------

11.93

1130.65

8.83	113248
------	--------

11.05

1128.43

1.90	1130.33
------	---------

8.65

1121.68

8.68	1130.36
------	---------

0.36

1130.00

10.14	1140.14
-------	---------

62

TBM 204
~~300~~

10.13

1130.01

1130.05

€ Rd € Culvert

£ Rd (c) W End Over Pass

See page 16 of this book

 $(+59.21$

-57.45

$$+ 1.76)$$

Level Loop 500

TBM 301			1162.97	1162.96
	5.99	1168.96		
① 2-63-6V			4.75	1164.21 1164.20
	0.11	1164.32		
			12.50	1151.82
	1.17	1152.99		
② 2-63-2V			12.72	1140.20 1140.19
	0.85	1141.05		
			12.41	1128.64
③ SET TBM 401	0.07	1128.71		
	3.39	1120.23	11.87	1116.84 1116.82
			0.65	1119.58
	11.65	1131.23		
			0.51	1130.72
	11.95	1142.67		
			0.16	1142.51
	(+ 35.18	\$	-55.64	-20.46)

June 5, 1980

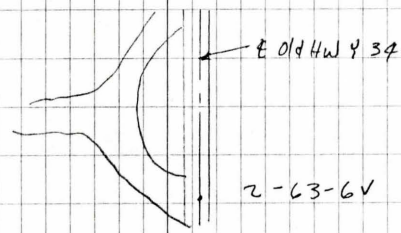
Hazy Warm Breez

Proett
Olte
Gibson

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See Page 17

@ old HWY 34 oppo East Entrance to Farm



@ old Hwy 34 L/w Fence Line South

{ Chiseled Sq on West Side of South
Curb Cut $\pm$ 1500' W the NE Cor Sec 21 T22
R26

Loop 500 (Cont)

				1142.51	
⑨	13.02	1155.53			
2-63-2V			8.82	1146.71	1146.69
			4.28	1151.25	
⑩	12.59	1163.84			
2-63-1V			11.13	1152.71	1152.69
	0.69	1153.40			
			12.91	1140.49	
	0.59	1141.08			
2-65-3V			11.39	1129.69	1129.67
	7.97	1137.66			
⑪ SET TBM 502			6.04	1131.62	1131.60
	12.45	1144.07			
			0.43	1143.64	
	11.57	1155.21			
			0.43	1154.78	
	9.10	1163.88			
2-65-2V			2.83	1161.05	1161.02
	11.75	1172.80			
			0.15	1172.65	
	(+ 79.73		- 49.59	+ 30.14)	

28

N Side of old HWY 34 L/w Fence North

{ E Rock Rd L/w Fence North
(12' W of End of Asphalt)

{ E N-S Rock Road E E Rock Rd North of
New HWY 34

{ RR Spike in 22^d PP West of N-S Rock
Road E South of New HWY 34 near NE
Corner Sec 20, T72, R26

E HWY L/w Fence South

Loop 500 (Cont)

29

				1172.65	
	12.83	1185.48			
			0.18	1185.30	
(19)	8.95	1194.25			
Z-65-4V			4.59	1189.66	1189.63
			6.15	1188.10	
	2.19	1190.29			
			12.55	1177.74	
(21)	1.75	1179.49			
Z-65-1V			7.71	1171.78	1171.75
	0.21	1171.99			
(22) SET TBM 503			15.28	1156.71	1156.68
	7.54	1164.25			
			0.32	1163.93	
	12.07	1176.00			
			0.10	1175.90	
(25)	6.19	1182.09			
Z+67-1V			4.21	1177.88	1177.84
	11.47	1189.35			
			0.15	1189.20	
	(+63.20	-46.65	+16.55)		

{ N Edge Pavement on HWY 34 1/4 w Field Drive North

& HWY 34 1/4 w & Drive South

{ RR Spike in PP South of HWY 34
closest to the NW Corner of Sec 20, T72,
R 26

{ & HWY oppo 2nd PP East of "T" Rd
South

Loop 500 (Cont)

30

			1189.20	
9.70	1198.90			
		7.39	1191.51	
1.46	1192.97			
		12.25	1180.72	
0.27	1180.99			
		12.36	1168.63	
0.52	1169.15			
		12.40	1156.75	
0.77	1157.52			
(3) SET TBM 504		10.90	1146.62	1146.58
2.68	1149.30			
		11.94	1137.36	
0.44	1137.80			
		11.83	1125.97	
0.21	1126.18			
		9.51	1116.67	
9.52	1126.19			
		0.39	1125.80	
10.86	1136.66			
		0.25	1136.41	
(+36.43		-89.22	-52.79)	

{ Chisled Square on Southeast end of
36" RCP under HWY 34 near NW Cor Sec 19
T 72 R 26

Loop 500 (Cont)

			1184.93	
12.39	1197.32			
		0.72	1196.60	
2.82	1199.42			
		12.77	1186.65	
0.27	1186.92			
		12.54	1174.38	
0.56	1174.94			
		11.91	1163.03	
7.61	1170.64			
		0.36	1170.28	
12.74	1183.02			
		0.33	1182.69	
12.89	⁵ 1193.58			
		0.58	⁵ 1193.00	
11.56	⁶ 1204.56			
SET TBM 506		5.44	¹²⁰¹ 1199.12	1201.05
1.868	² 1209.80			
	¹	12.07	⁹⁰ 1188.73	
3.02	³ 1191.75			
		11.50	² 1180.25	
(+ 65.54		- 68.22	- 2.68)	

RR Spike in PP SSW of Cross Roads
near Center of Sec 12, T72 R2

Loop 500 (Cont)

			1182.25	
	5.82	1188.07		
			12.69	1175.38
	0.67	1176.05		
			12.12	1164.93 ³
	0.44	1164.37		
			8.74	1155.63
	12.39	1168.02		
			0.29	1167.73
	12.94	1180.67		
			0.34	1180.33
	5.65	1185.98		
			12.78	1173.20
	6.04	1179.24		
			0.75	1178.49
	12.45	1190.94		
(64) 3-79-1V			3.30	1187.64 1187.56
	10.04	1197.68		
			2.42	1195.26
(66) SET TBM 507	5.94	1201.20		
			6.34	1194.86 1194.78
	(+72.38		-59.77	+12.41)

{ E Rd of oppo 1st PP East of Track
& North of Road. }

RR spike in PP NE of "T" Rd South
near Center Section

Loop 500

(Cont)

34

TBM 507

1194.86

(67)

4.13 1198.99

3-79-3V

3.43 1195.56 1195.48

(69)

4.15 1199.71

3-79-5V

5.06 1194.65 1194.57

5.12 1199.77

5.32 1194.45

3.68 1198.13

11.32 1186.81

2.80 1189.61

~~72.0~~

(71)

3-79-2V

10.07 1179.54 1179.45

10.69 1190.23

0.38 1189.85

9.57 ⁹1189.42

10.89 1188.53

2.24 1190.77

(74)

3-77-1V

8.16 1182.61 1182.52

2.25 1184.86

11.37 1173.49

3.45 1176.94

(75)

3-77-2V

8.42 1168.52 1168.43

(+ 48.08

- 74.42

- 26.34)

See Previous Page

& "T" Rds South

& Dirt Road 1/2 W Fence East

& & N. & E Dirt Roads

& Rd 1/2 W & Field Entrance North

(-0.2)
& Rd 1/2 W Fence Line North

Loop 500 (Cont)

			1168.52	
	0.49	1169.01		
			12.66	1156.35
(72) SET 7BM 508	0.08	1156.43		
			6.93	1149.50 1149.41
	4.77	1154.27		
			9.86	1144.41
(50) 3-77-3V	2.89	1147.30		
			7.02	1140.28 1140.18
	8.56	1148.84		
			12.83	1136.01
(92) 3-77-9V	0.24	1136.25		
			5.2	1131.0 1131.9
			6.31	1129.94
(83) 3-77-4V	4.62	1134.56		
			5.2	1129.4 1129.3
			2.94	1131.62
	11.79	1143.41		
			0.65	1142.76
	(+33.44		- 59.20	- 25.76

Top South End East of 2' 48" CMP,
near W 1/4 Cor along North Line Sec 17
T 72 R 26

± Rd 1/4 ± Drive North

± Rd 1/4 ± Culvert (by π)

± Rd 1/4 ± Culvert (by π)

Loop 500 (Cont)

			1142.76	
(95) SET TBM 509	11.69	1154.45	7.43	1147.02 1146.92
(96) 3-75-1V	7.47	1154.49	3.29	1151.20 1151.10
	0.44	1151.64	12.89	1138.75
	0.39	1139.14	12.83	1126.31
(97) 3-75-2V	0.94	1127.25	8.22	1119.03 1118.92
	9.27	1128.30	0.36	1127.94
	12.25	1140.19	0.29	1139.90
	12.97	1152.87	0.54	1152.33
	11.48	1163.01	1.20	1162.61
	4.75	1167.36	12.19	1155.17
(+71.65)			-59.24	+12.41)

{ RR Spike in CFP NW of Cross Roads
near SW Cor Sec 9 T 72 R 26

& & & Rds

(-0.2)

& Rd < /w & Culvert

Loop 500 (Cont)

37

	0.67		1155.17	
	0.67	1155.84		
			12.76	1143.08
(97)	0.08	1143.16		
3-75-3V			16.88	1126.28 1126.16
	17.39	1143.67		
			0.38	1143.29 1143.18
(98)	6.47	1149.76		
3-75-4V			3.70	1146.06 1145.94
	8.29	1154.35		
			3.86	1150.49
	12.88	1163.37		
		1163.59	1.40	1163.97
	3.62	1163.59		
(101)			11.02	1154.57 1154.45
TBM 401				
	(+49.40	- 50.00	- 0.60)	

E Rd 4/w E Culvert

E Rd 4/w E Drive North

See page 21

[illegible]

Cldy, Cool, Wind,

Proett
Gibson
Otte

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from page 33

4 Rd 4/w 4 Drive North

4 Rd 4w Fence Line South

4 Rd 4w Large Farm Drive North

{ RR spike in NW face of PP NW of T Rd
North near the Center of sec 8 T72 R26

E of "T" Rds North

2 of "T" Rds East

RR Spike in NE Face fPP NE of T Rds
East near S 1/4 Cor Sec 5 T72 R26

Loop 600 (Cont)

TBM 602			1176.79	1176.72
	5.33	1182.12		
(9) 3-77-11V			8.76	1173.36
	2.60	1175.96		
(10) 3-75-5V			5.43	1170.53
	0.64	1171.17		
			11.48	1159.69
	5.74	1165.43		
(11) 3-75-6V			6.58	1158.85
	10.59	1169.44		
			12.52	1156.92
	2.38	1159.30		
(12) SET TBM 603			5.84	1153.46
	1.76	1155.22		
(15) 3-75-7V			9.17	1146.05
	0.43	1146.48		
			12.05	1134.43
	1.41	1135.84		
			12.03	1123.81
(T30.88)			83.86	52.98)

June 6, 1980

Cldy, Cool, Windy

Proett
Gibson
Otto

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See previous page

E Rd 4w E Field Drive South

E "T" Rd South

E Rd E Drive North (Top small hump)

RR Spike in North face PP in yard of
of Farm House (1st East of N¹/₄ Cor E South of Rd)
at ± 800' E of the N¹/₄ Cor of Sec 9 T72 R26

E Rd 4w E Farm Drive South

Loop 600 (Cont)

[illegible]

2 Rd. 1/2 w 2 Field Drive North

ϵ_{Rd} ϵ/w ϵ Culvert

{ E Rd ~~for~~ oppo Center of Double Drive

£ of Cross Roads

{ RR spike in NE face PP SW of
Cross Roads @ N 1/4 Sec 10 T 72 R 26

€ Rd $\frac{1}{2}$ € Culvert

Loop 600

(Cont)

41

				1129.62	
(27) 3-73-9V	4.68	1134.30	5.1	1129.12	1129.2
(28) 3-73-10V			3.26	1131.04	1131.00
	10.33	1141.37			
			0.06	1141.31	
(29) 3-73-14V	12.22	1153.53			
			7.47	1146.06	1146.02
(31) SET 7.8M. 605	2.10	1148.16			
			11.26	1136.90	1136.86
	0.57	1137.47			
			12.62	1134.85	
(32) 3-71-6V	0.84	1125.69			
			15.27	1110.42	1110.39
	9.78	1120.20			
			9.67	1110.53	
	10.87	1121.40			
			0.16	1121.30	
	12.05	1133.35			
			0.44	1132.91	
	(+63.44		-60.15	+3.29)	

E Rd 1/2 W E Culvert (by π)

E Rd 1/2 W E Field Entrance North

E Rd 1/2 W Crop Line South

{ RR Spike in PP S of Rd E W of Drive
on Farm House near the NW Cor Section 11
T 72 R 26

E E-W Rd 1/2 W E Drive North

Loop 600 (cont)

				1132.91	
	12.51	1145.42			
			0.05	1145.37	
	8.97	1154.34			
(39) 3-71-5V			2.25	1152.09	1152.07
	3.37	1155.46			
(40) 3-71-7V			8.33	1147.13	1147.11
	0.91	1148.04			
(41) 3-71-8V			11.15	1136.89	1136.87
	2.24	1139.13			
TBM 403			3.34	1135.79	1135.77

(+28.00

-25.12

+2.88)

E Rd 4W E Drive East

E Rd oppo PP @ Crop Change

E Rd 4W Fence Line W

See page 23

Level Loop 700

TBM 602			1176.79	1176.72
	2.49	1179.28		
			9.80	1169.48
	2.40	1171.88		
			12.71	1159.17
② 4-85-1V	0.28	1159.45		
	12.33	1155.88	15.90	1143.55
				1143.48
			0.10	1155.78
	11.60	1167.38		
			5.39	1161.99
② 4-85-2V	11.17	1173.16		
			5.1	1168.1
				1168.0
			12.46	1160.70
⑦ SET TBM 701	0.87	1161.57		
			15.57	1146.00
	19.07	1165.07		1145.93
			12.59	1152.48
	0.48	1152.96		
			12.42	1140.54
(+ 60.69)			-96.94	-36.25

June 6, 1980
Chty, Hot, Breez

Proert
Gibson
Otto

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from page 38

E Rd E Culvert

E Rd 4w E Drive W (by T)

{ RR Spike in PP SW of "T" Rd West
near the North Center 1/4 Corner of Sec 5.
T72 R2C

	Loop	700	(Cont)	
			1140.54	
	6.01	1146.55		
4-85-3V		7.65	1138.90	1138.82
	13.01	1151.91		
		0.12	1151.79	
	12.90	1164.69		
		0.16	1164.53	
	12.05	1176.58		
(12) 4-85-5V		3.97	1172.61	1172.53
	4.55	1177.16		
		5.32	1171.84	
	3.77	1175.61		
(14) 4-85-4V		6.57	1169.04	1168.96
	2.24	1171.28		
		12.46	1158.82	
	0.82	1159.64		
(17) 4-85-6V		11.41	1148.23	1148.15
	3.83	1152.06		
(18) SET TBM 702		4.66	1147.40	1147.32
	(+59.18	-52.32	+6.86)	

E Rd C/w Field Entrance North

E E-W Rd C/w Trees North

E Rd C/w Fence Line North

E "T" Rds North

{ RR Spike in 2nd PP E of "T" Rds North
 E South of E-W Rd near the W 1/4 Cor
 along the North line of Section 4 T 72 R 26

Loop 700 (Cont)

TBM 702

1147.40 1147.32

12.40 1159.80

12.69 1147.11

2.83 1149.94

0.40 1149.54

5.66 1155.20

4-83-1V

3.22 1151.98 1151.90

11.41 1163.39

0.27 1163.12

9.12 1172.24

(25)
4-83-4V

2.43 1169.81 1169.73

3.80 1173.61

19.22 1154.39

8.67 1163.06

(25)
4-83-2V

16.11 1146.95 1146.87

15.97 1162.92

8.91 1154.01

2.43 1156.44

(1) SET
TBM 703

11.38 1145.06 1144.98

7.32 1152.38

4-83-3V

6.68 1145.70 1145.69

(179.61

-81.31

-1.70)

E Rd Yw Field Drive North

E Rd Yw Farm Drive due North

{ RR Spike in North Face of PP WSW of "T" Rd
 West near N¹/₄ Cor Section 3 T72 R26
 E "T" Rd West

Loop 700 (Cont)

1145.70

1.06 1146.76

13.04 1133.72

11.92 1145.64

(30)

4-83-5V

9.28 1136.36 1136.27

0.69 1137.05

12.15 1124.90

12.87 1137.77

0.24 1137.53

11.17 1148.70

(31)

4-83-6V

3.35 1145.35 1145.26

1.12 1146.47

0.34 1146.13

10.33 1156.46

(32)

4-83-7V

3.33 1153.13 1153.04

2.01 1155.14

8.35 1146.79

4.77 1151.56

(33)

TEM 604

13.32 1138.24 1138.15

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E Rd Yw Farm Drive West

E Rd Yw Fence East

E Rd Yw Fence West

See page 40

Level Loop 800

TBM 703

1145.06 1144.98

5.95 1151.01

12.43 1138.58

0.08 1138.66

12.48 1126.18

0.25 1126.43

12.80 1113.63

0.55 1114.18

12.76 1101.42

0.55 1101.97

10.00 1091.97

②
4-81-1V

1.93 1098.90

7.21 1088.69 1086.63

0.50 1088.19

0.66 1088.53

12.48 1098.01

0.21 1098.80

11.88 1107.68

0.76 1108.92

12.77 1128.69

1.06 1114.63

3.60 1128.23

4.20 1114.03 1120.98

⑩
4-81-2V

(+50.54

-74.57 -24.03)

June 7, 1980
P.C. Hot, Humid, Calm

Proett
Olte
Gibson

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④ Trail L/W West End of East Bldg
in homestead

Crest of Hill 10' South of South E. W.
Fence 50' W of N-S Fence

Loop 800 (Cont)

48

			21	
			1119.03	
5.31	112 ⁶ 4 .42			
		11.49	4	
			1118.93	
12.47	112 ⁷ 5 .40			
		0.42	6	
			1124.98	
12.75	113 ⁹ 8 .73			
		0.23	9	
			1138.50	
12.25	114 ⁵¹ 2 .75			
(3) TBM 703		6.73	114 ⁵ 5 .02	1144.98 1145.06

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(+42.86 -18.87 +23.99)

Level Loop 900

7BM 701			1146.00	1145.93
	0.69	1146.69		
			17.11	1129.58
	0.34	1129.92		
			17.29	1112.63
	0.81	1113.44		
			16.29	1097.15
	1.11	1098.26		
(2) 4-87-2V			18.17	1080.09 1080.02
	17.83	1097.92		
			0.30	1097.62
	17.55	1015.07		
			0.51	1014.66
	17.81	1032.47		
			0.49	1131.98
	17.49	1149.47		
			1.03	1148.44
	17.17	1165.61		
			0.88	1164.73
(10) 4-87-1V	12.95	1177.68		
			4.18	1173.50 1173.43
	(-103.75	-76.25	+27.50)	

June 7, 1980

Oldy, Brez,

Proott
Otte
Gibson

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from page 43

(-0.2)
+ Dirty Rd 4w + Culvert

50' S of E-W Fence 4w 2 trees in old
abandon Fence line (still apparent on Photo)

Loop 900

(12)

TBM

2.42

1175.92

0.18

1158.27⁶³

17.47

1173.50

1158.45

12.69

12.63^{7.05}

1146.00

1145.93

50

-0.05 Curvature Correction

Level Loop 1000

TBM 507				1194.86	1194.78
	3.42	1198.28			
3-79-60			9.19	1189.09	1188.99
	0.35	1188.44 ⁹			
3-79-40			18.26	1171.18	1171.07
	18.35	1189.53			
			0.42	1189.11	
	9.27	1198.38			
TBM 507			3.50	1194.88	1194.78 ⁷⁸

417

June 7, 1980

P.C., Warm, Brez

Proett
Otte
Gibson

51

See page 33

± Rd C/w Fence West

± Rd C/w ± Culvert

As Above

	Level	Loop	1100	
BM T20MT			1123.47	1123.46
	15.08	1138.55		
		2.60	1135.95	
	7.24	1143.19		
		16.56	1126.63	
	0.37	1127.00		
		17.49	1109.51	
	0.36	1109.87		
		16.65	¹⁰⁸³ 25.22	
	15.11	¹¹⁰⁸ 1098 .33		
		0.19	¹¹⁰⁸ 1098 .14	
	16.78	² 1114.92		
		0.66	² 1114.26	
	12.70	³ 1116.96		
143-2V		4.02	³ 1112.94	1132.94
	6.53	³ 1119.47		
		12.67	² 1116.80	
	3.59	³ 1110.39		
		16.43	1113.96	
	1.63	⁵ 1115.39		
		13.32	^{02.27} 11 04.97	
	16.89	^{9.16} 1115.85		
		0.32	[?] 1118.14	

June 7, 1980

P.C. Hot Bree

Proert
Otte
Gibson

52

from page 8 this book

8 trail line with Fe to the South

Loop 1100 (Cont)

1118.⁸54

15.57 / 134.4

1.30	3,11 1132.84
------	-----------------

4.92	113	8.03 7.73
------	-----	--------------

1-43-1V

7.80	1130.23	1130.23
------	---------	---------

See page 19 this book

~~5-7-2000~~

West Lake Land Use

Corn	Soybeans	Meadow	Past.
2157 ⁰⁶	1677 1959 ⁰⁶	8990 ⁰⁶	⁰⁶ 836
			5563
	5845	Road & Farmstead	258
		Reservoir	162
			5983

$\frac{1}{2}$ 40 gal.

1-

$1\frac{1}{2}$ - March

3

$2\frac{1}{2}$ -

10-20 gal fertilizer -

80-

40- $7 \div 30$

C	Sb	O	m	m
450	450	450	450	450

C	Sb	O	m	m	
300	300	300	300	300	= 1500CSb Omm

2151	1959
- 300	- 300
<u>1851</u>	<u>1659</u>
1659	
<u>192</u>	

1375 - C-Sb

475 - Continuous Corn

1500 CSb Omm

850 Pasture

1659 - 1659 3318

192 192

1500 1500

836 836

~~6146~~

5846

+ 258

162

6266 total
over

CSb 3318

CC 192

CSbomm 1500

Pasture 836

258 Roads & Emulds.

162 Reservoir

6266

Of the Sb 836 ac or 42% were fall plowed
Fall chiseled
or fall disked
(straight row)

488 ac or 25% were Fall chisel
or Fall disk
(contour)

of Total Sb 27% contour
73% straight row
49% fall chisel
14% Fall moldboard plow
4% fall disk
32% left untouched

May 12 →
 12 & 13 →
 Gary Wells 14th or 15th

of the corn 12/13 or or 56% were fall plowed
 full chisel
 or full disk
 (straight row)
 117 ac or 6% were fall chisel
 (contour)

of total corn 91% straight row
 9% contour
 24% Fall chisel
 33% Fall plow
 5% Full disk
 38% left untouched

Total Fall plowed Corn - 56 - Meadows

Fall Plow	Fall chisel	Fall disk
Mead 29	10	—
corn 720	505	105
56 282	956	86
1031	1471	191
38%	55%	7%

2693 fall work

③

	CORN	BEANS	MEADOW	
Glen Hughes ⁽²⁹⁾	10 F.C.	50 F.C.		S.R.
P.A. Smith ⁽³⁰⁾	60 stalks		10	S.R.
SAM Audelhelm ⁽³¹⁾	30 stalks	15		S.R.
Milton Miletch ⁽³²⁾	105 F.D.		15 perm	S.R.
Hubert Price ⁽³³⁾	20 S.R.		40	S.R.
Arden Toland ⁽³⁴⁾	24 S.R.	53 F.P.		S.R.
Ronald Edgington ⁽³⁵⁾	16 F.C.	77 F.C.	30 perm	S.R.
Tom Iwed ⁽³⁶⁾		20 S.R.		S.R.
Merrell Dorlan ⁽³⁷⁾	85 S.R.	80 S.R.	90 perm	S.R.
DON COPPER ⁽³⁸⁾		160	20 perm	S.R.
Bill Kelso ⁽³⁹⁾	15 S.R.		43 ^{10 perm}	S.R.
Jay Wolfe ⁽⁴⁰⁾	20 F.P.			S.R.
CLORENCE NEFF ⁽⁴¹⁾	12 F.P.		70 perm	S.R.
Hap Clifton ⁽⁴²⁾	<u>6 F.C.</u>	<u>30 F.C.</u>	<u>10 perm</u>	S.R.
TOTAL	403	485	328	

2

	CORN	BEANS	MEADOW	
Dale Stephenson ⁽¹⁵⁾	55	55 f.p.	50 perm	S.R.
John Webb ⁽¹⁶⁾	40 f.c.	40	70 perm	S.R.
Merle Patterson ⁽¹⁷⁾	25		90 (15 perm)	S.R.
Jim Webb ⁽¹⁸⁾	20 CS		20 rotation 40 perm	
Frank Reynolds ⁽¹⁹⁾	25	90 f.c. C	120	C
DALE Stephenson ⁽²⁰⁾	71 f.c.	166 f.c.		S.R.
Don Edgington ⁽²¹⁾	22 f.p.	50 f.p.		S.R.
DON DAVIS ⁽²²⁾	20	90 sr-fp	50 perm	S.R.
Merle Patterson ⁽²³⁾	54 f.p.		85	S.R.
Litchfield E.S.T. ⁽²⁴⁾		40 f.c.	10 f.c.	S.R.
Glen Stephenson ⁽²⁵⁾	30 f.c.			S.R.
John Audelhelm ⁽²⁶⁾	48 f.c.		10	S.R.
DALE Stephenson ⁽²⁷⁾	90 f.c.	140 f.c.		S.R.
JACK Nish ⁽²⁸⁾	<u>77 f.c.</u>	<u>30 f.c.</u>	<u>80</u> 30 rotation perm	
TOTAL	557	701	605	

①

F.P. = fall Plowed
 F.C. = fall Chisel
 F.D. = fall Disk
 C. = Contour
 S.R. = Straight Row

NAME	CORN	BEANS	MEADOW	
Wayne Boor ^①	150 F.P.	0	15	S.R.
Ephion Osborn ^②	92 F.P.	33	35 Perm	S.R.
DR. Kirkpatrick ^③	126 S.R. stalks	149 C.-F.C.	116 (70 perm)	S.R. + C.
Claude Bogg ^④	50 C.F.C.	44 C.-f.c.	71 perm	C
Sidney Gross ^⑤	160 S.R. f.p.	140 C.-f.c.	15 perm	S.R. + C
Don Edgington ^⑥	56 S.R.-	24 SR	70	S.R., C
Marlo Peterson ^⑦	68	90 SR	29 F.P.	S.R.
Leland Shaw ^⑧	85 F.P.	30	25 perm	S.R.
Richard Touet ^⑨	67 C.-F.C.	65 F.D.	15 perm	C
Kenneth Clarke ^⑩	48 C	43 C	10 perm	C
Merle Klein ^⑪	44 S.R.	20 S.R.	20 perm	S.R.
Darrell Flaherty ^⑫	123 f.p.	34 f.p.	25 perm	S.R.
Olin Marquis ^⑬	60	80	20	S.R.
Keith Weakland ^⑭	40	21 f.D.	96 rotation	S.R.
TOTAL	1171	773	562	

②

BEANS

West Lake Land Use Inventory

1-10-80

SR (Straight Rows)

C (Contour)

	fp	fc	fd	BS		fp	fc	fd	CS
25.	—								
26.	—								
27.		140							
28.		30							
29.		50							
30.	—								
31.				15					
32.	—								
33.	—								
34.	53								
35.		77							
36.				20					
37.				80					
38.				160					
39.	—								
40.	—								
41.	—								
42.		30							
TOTAL									
	282	533	21	592		0	423	65	43
	14%	27	1%	30%			22%	3%	2

②

CORN

WEST LAKE Land USE Inventory 1-10-80

SR (straight Row)

C (contour)

	FP	FC	FD	CS		FP	FC	FD	CS
24.	—								
25.		30							
26.		48							
27.		90							
28.		77							
29.		10							
30.				60					
31.				30					
32.			105						
33.				20					
34.				24					
35.		14							
36.	—								
37.				85					
38.	—								
39.				15					
40.	20								
41.	12								
42.		4							
Total									
	720	388	105	748		0	117	0	73
	.33%	.18%	.5%	.35%			.6%		.3%

①
CORN

West Lake Land Use Inventory 1-10-80

SR (straight row)

C (contour)

fp	fc	fd	cs	fp	fc	fd	cs
1. 150							
2. 92							
3.			126				
4.					50		
5. 160							
6.			56				
7.			68				
8. 85							
9.					67		
10.							48
11.			44				
12. 125							
13.			60				
14.			40				
15.			55				
16.	40						
17.			25				
18. —			20				
19.							25
20.	71						
21. 22							
22.			20				
23. 54							

①

BEANS

WEST LAKE LAND USE INVENTORY 1-10-80

SR (straight Row)

C (contour)

	fp	fc	fd	BS		fp	fc	fd	CS
1.	—								
2.				33					
3.							149		
4.							44		
5.							140		
6.				24					
7.				90					
8.				30					
9.								45	
10.									43
11.				20					
12.	34								
13.				80					
14.			21						
15.	55								
16.				40					
17.	—								
18.	—								
19.							90		
20.		166							
21.	50								
22.	90								
23.	—								
24.		40							

②
MEADOW

WEST Lake Land Use Inventory 1-10-80

SR (straight row)

C (contour)

MEADOW	F.P.	FC	PERM	MEADOW	F.P.	PERM
25. —						
26. 10						
27. —						
28. 30			80			
29. —						
30. 10						
31. —						
32. —			15			
33. 40						
34. —						
35. —			30			
36. —						
37. —			90			
38. —			20			
39. 43			10			
40. —						
41. —			70			
42. —			10			
Total 670	29	10	836	190	0	0

MAY 03 1988

STATE Iowa
RC&D AREA Southern Iowa
RC&D MEASURE PLAN West Lake
MEASURE PLAN No. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 12 TO PROJECT AGREEMENT

Section D.1 is hereby changed to increase the Service's share of the cost from \$86,600.00 to 86,663.19.

PURPOSE: To adjust funds needed to complete project.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Richard J. Maney

TITLE: State Administrative Officer

DATE: 5/5/88

Clarke County
SWED

STATE	Iowa
RC&D AREA	Southern Iowa
RC&D MEASURE PLAN	West Lake
MEASURE PLAN No.	19-6002-039-014
CONTRACT NO.	59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 11 TO PROJECT AGREEMENT

Section D.1 is hereby changed to increase the Service's share of the cost from \$85,600.00 to 86,600.00.

PURPOSE: To adjust funds needed to complete project.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Richard J. Mooney

TITLE: State Administrative Officer

DATE: 3/30/88

Encumbered
\$ 1,000.00
3/31/88
w

CLARKE COUNTY SOIL CONSERVATION DISTRICT
STATE Iowa
RC&D So ern Iowa
RC&D MEASURE PLAN West Lake
MEASURE PLAN NO. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 10 TO PROJECT AGREEMENT

Section A is hereby changed to add the following Cooperators:

19. Marlow Peterson	Conservation Plan No. 1658
20. Jack Nish	Conservation Plan No. 1052

Section A. is hereby changed to delete the following Cooperator:

15. Gerald Davis	Conservation Plan No. 1288
------------------	----------------------------

PURPOSE: To add new cooperators to Project Agreement and delete those not performing work at this time.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

BY: *Richard Carson*

TITLE: Chairman, Clarke Co. SWCD

DATE: 10/13/87

This action authorized at an official meeting of Clarke County Soil & Water Conservation District Commissioners on the 13th day of October, 1987, at Osceola, State of Iowa.

Lois W. Manchester
(Signature)

District Clerk, Clarke SWCD
(Title)

BOARD OF WATERWORKS TRUSTEES, CITY OF OSCEOLA

BY: *Bill [unclear]*

TITLE: Chairman

DATE: 10-15-87

This action authorized at an official meeting of Osceola Water Board on the 15th day of October, 1987, at Osceola, State of Iowa.

[Signature]
(Signature)

City Clerk
(Title)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: *J. Michael [unclear]*

TITLE: State Conservationist

DATE: October 20, 1987

STATE	<u>Iowa</u>
RC&D AREA	<u>Southern Iowa</u>
RC&D MEASURE PLAN	<u>West Lake</u>
MEASURE PLAN NO.	<u>19-6002-039-014</u>
CONTRACT NO.	<u>59-6114-1-672</u>

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 9 TO PROJECT AGREEMENT

Section D.1 is hereby changed to increase the Service's share of the cost from \$79,562.00 to \$85,600.00.

+6,038.00

PURPOSE: To adjust funds needed for project. *EW*

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Richard J. Money

TITLE: State Administrative Officer

DATE: September 30, 1986

MAR. 24 1986

STATE	Iowa
RC&D AREA	Southern Iowa
RC&D MEASURE PLAN	West Lake
MEASURE PLAN NO.	19-6002-039-014
CONTRACT NO.	59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 8 TO PROJECT AGREEMENT

Section D.1 is hereby changed to increase the Service's share of the cost from \$77,560.00 to 79,562.00.

+2,002.00 CW

PURPOSE: To increase funds that are needed for this project.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Arthur C. Bryant Acting

TITLE: State Administrative Officer

DATE: March 18, 1986

STATE	Iowa
RC&D	Southern Iowa
RC&D MEASURE PLAN	West Lake
MEASURE PLAN NO.	19-6002-039-014
CONTRACT NO.	59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 7 TO PROJECT AGREEMENT

The estimated cost to the Service in Clause 1 of Section D is hereby changed from \$68,900.00 to \$ 77,560.00. *+ 8,660.00*

PURPOSE: To increase funds that are needed for this project.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Richard J. Manning

TITLE: State Administrative Officer

DATE: May 30, 1985

STATE Iowa
RC&D Southern Iowa
RC&D MEASURE PLAN West lake
MEASURE PLAN NO. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 6 TO PROJECT AGREEMENT

The estimated cost to the Service in Clause 1 of Section D is hereby
changed from \$56,900.00 to \$68,900.00.

+ 12,000.00

PURPOSE: To increase funds that are needed for this project.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY:

Ronald K. Hummel

TITLE: State Administrative Officer

DATE: December 11, 1984

1984

STATE Iowa
RC&D AREA Southern Iowa
RC&D MEASURE PLAN West Lake
MEASURE PLAN NO. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO 5. TO PROJECT AGREEMENT

The estimated cost to the Service in Clause 1 of Section D is hereby changed from \$48,000.00 to \$56,900.00.

Purpose: To increase funds that are needed for this project.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Ronald K. Hummel

TITLE: State Administrative Officer

DATE: September 28, 1984

Clarke County
SCP

STATE Iowa
RC&D Southern Iowa
RC&D MEASURE PLAN West Lake
MEASURE PLAN NO. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 4 TO PROJECT AGREEMENT

Section A is hereby changed to add the following Cooperators:

16. ✓ Merle Patterson	Conservation Plan No. 1766
17. ✓ Dale Stephenson	Conservation Plan No. 769
18. ✓ Ralph Gilbert Trust	Conservation Plan No. 1529

PURPOSE: To add new cooperators to Project Agreement.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

BY: Richard Carson
TITLE: Chairman, Clarke Soil Conserv. Dist.
DATE: August 16, 1984

This action authorized at an official
meeting of Clarke County Soil
Conservation District Commissioners
on the 16th day of August,
19 84, at Osceola,
State of Iowa.

Louis W. Manchester
(Signature)

District Clerk, Clarke SCD
(Title)

BOARD OF WATERWORKS TRUSTEES, CITY OF
OSCEOLA

BY: x Bud J. Wood
TITLE: Chairman
DATE: 9.6.84

This action authorized at an official
meeting of Osceola Water Board
on the 6th day of Sept,
19 84, at Osceola,
State of Iowa.

x [Signature]
(Signature)

Secretary
(Title)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: Eldon C. Weber, Nor
TITLE: State Conservationist
DATE: September 28, 1984

STATE Iowa
RC&D Southern Iowa
RC&D MEASURE PLAN West Lake
MEASURE PLAN NO. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 3 TO PROJECT AGREEMENT

Section A is hereby changed to add the following Cooperator:

14. Marquis Farms, Inc.	Conservation Plan No. 1744
15. Gerald Davis	Conservation Plan No. 1288

Section A. is hereby changed to delete the following Cooperators:

1. Robert Glasco	
3. James Webb	Conservation Plan No. 1274
5. Darrell Flaherty	Conservation Plan No. 1536
6. Paul Audelhelm	
7. Marlo Peterson	Conservation Plan No. 1658
8. Merle Patterson	
9. Hubert Price	Conservation Plan No. 1553
10. Merrill Dorland	Conservation Plan No. 1276
11. Bill Kelso	Conservation Plan No. 1472
12. Kenneth Kilkinney	Conservation Plan No. 1655

PURPOSE: To add new cooperators to Project Agreement and delete those not performing work at this time.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

BY: Richard Carson
TITLE: Chairman
DATE: 12/16/82

This action authorized at an official meeting of Clarke County Soil Conservation District Commissioners on the 16th day of December, 1982, at Osceola, State of Iowa.

Louis W. Manchester
(Signature)
District Clerk
(Title)

BOARD OF WATERWORKS TRUSTEES, CITY OF OSCEOLA

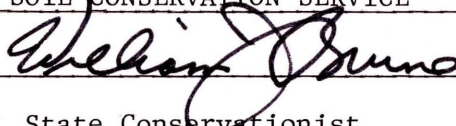
BY: Fred Wood
TITLE: Chairman
DATE: 1-6-83

This action authorized at an official meeting of Osceola Water Board on the 6th day of Jan, 1983, at City Hall, State of Iowa.

Don Chio
(Signature)
City Clerk
(Title)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY:



TITLE: State Conservationist

DATE: January 14, 1983

Clarke County
Soil Conservation District

STATE IOWA
RC&D AREA Southern Iowa
RC&D MEASURE PLAN West Lake
Measure Plan No. 19-6002-
039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 2 TO PROJECT AGREEMENT

The estimated cost to the Service in Clause 1 of Section D is hereby changed from \$108,000 to \$48,000.

Purpose: To decrease funds that are not needed for this project at this time.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: William J. Brune

TITLE: State Conservationist

DATE: August 31, 1982

Clarke County Soil Conservation District
STATE Iowa
RC&D Southern Iowa
RC&D MEASURE PLAN West Lake
MEASURE PLAN NO. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

AMENDMENT NO. 1 TO PROJECT AGREEMENT

Section A is hereby changed to add the following Cooperator:

13. Litchfield Realty

Conservation Plan No. 1517

PURPOSE: To add new cooperator to Project Agreement.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

BY: Richard Larson

TITLE Chairman

DATE: August 19, 1982

This action authorized at an
official meeting of Clarke County
Soil Conservation District
Commissioners
on the 19th day of August,
19 82, at Osceola,
State of Iowa.

Lois W. Manchester
(Signature)

District Clerk

(Title)

BOARD OF WATERWORKS TRUSTEES, CITY OF
OSCEOLA

BY: Fred Wood

TITLE Chairman, Water Board

DATE: 8-5-82

This action authorized at an
official meeting of Osceola
Water Board
on the 5th day of August,
19 82, at City Hall,
State of Iowa.

Don Chris
(Signature)

City Clerk
(Title)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BY: William D. Jones

TITLE: State Conservationist

DATE: August 30, 1982

STATE IOWA
RC&D AREA Southern Iowa
RC&D MEASURE PLAN West Lake
Measure Plan No. 19-6002-039-014
CONTRACT NO. 59-6114-1-672

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

PROJECT AGREEMENT

THIS AGREEMENT, made this 3rd day of June, 1981, by and between the Clarke County Soil Conservation District and the Board of Waterworks Trustees, City of Osceola, called the Sponsors; the Clarke County Soil Conservation District, called the District and the Soil Conservation Service, United States Department of Agriculture, called the SCS.

WITNESSETH THAT:

WHEREAS, under the provisions of Title III of the Bankhead-Jones Farm Tenant Act, as amended (7 U.S.C. 1011) and of the Soil Conservation Act of 1935 (16 U.S.C. 590a-f), SCS is authorized to assist the Sponsor of project measures under the project plan of the Southern Iowa Resource Conservation and Development Area.

NOW, THEREFORE, in consideration of the premises and of the several promises to be faithfully performed by the parties hereto as set forth, the Sponsor and SCS do hereby agree as follows:

A. It is agreed that Critical Area Treatment will be accomplished on lands owned or controlled by the following cooperators at an estimated cost of \$144,000.00.

- | | |
|-------------------------|------------|
| 1. ✓ Robert Glasco | |
| 2. ✓ R. J. Kirkpatrick | Plan #1513 |
| 3. ✓ James Webb | Plan #1274 |
| 4. ✓ John Webb | Plan #1334 |
| 5. ✓ Darrell Flaherty | Plan #1536 |
| 6. ✓ Paul Audelhelm | |
| 7. ✓ Marlow Peterson | Plan #1658 |
| 8. ✓ Merle Patterson | |
| 9. ✓ Hubert Price | Plan #1553 |
| 10. ✓ Merrill Dorland | Plan #1276 |
| 11. ✓ Bill Kelso | Plan #1472 |
| 12. ✓ Kenneth Kilkinney | Plan #1655 |

B. The Sponsors will:

1. Provide 0 percent of the average cost for each component or practice installed by each cooperator listed in A above. This cost to the Sponsor is estimated to be \$0.00.

2. If applicable, complete the attached Clean Air and Water Certification, and comply with the attached Clean Air and Water Clause.

C. The District will:

1. Appoint an Authorized Representative and Alternate, who shall have authority to act for the Sponsor, listing their duties, responsibilities, and authorities. Furnish such information in writing to the State Administrative Officer.
2. Enter into agreements approved by SCS, with each cooperator for installation of critical area treatment measure in accordance with drawings and specifications furnished by SCS. A copy of each agreement will be furnished to SCS.
3. Obtain written concurrence of the State Administrative Officer before approving changes in the Sponsor-Cooperator agreement and in the installation schedule.
4. Provide necessary facilities, clerical personnel, and legal counsel for arranging for and carrying out the installation of works of improvement by the cooperators listed in A.
5. Pay the cooperator as set out in the Sponsor-Cooperator agreement. Submit billings to SCS on Form SF-270 supported by Certification of Completion and invoices, if required.
6. Hold and save SCS free from any and all claims or causes of action whatsoever resulting from the obligations undertaken by the Sponsor under this agreement or resulting from the work provided for in this agreement.
7. Dispose of all claims resulting from the work under the Sponsor-Cooperator agreement; secure prior written concurrence of the State Administrative Officer if SCS funds are involved.
8. Take reasonable and necessary actions to dispose of all issues arising out of the Sponsor-Cooperator agreement. This includes, but is not limited to, disputes, claims and lawsuits. Such actions will be at the expense of the Sponsor, including any legal expenses. The Sponsor is to advise, consult with, and obtain prior written concurrence of SCS on any such matters in which the Service could have a financial interest.
9. Retain all records dealing with the award and administration of the contract for 3 years from the date of the Contracting Local Organization's submission of the final request for reimbursement when no litigation is involved. If any litigation is started before the expiration of the 3-year period, the records are to be retained until the litigation is resolved. Make such records available to the Comptroller General of the United States or his duly authorized representative and accredited representatives of the Department of Agriculture or cognizant audit agency for the purpose of making audits, examinations, excerpts, and transcripts.

D. SCS will:

1. Provide 75 percent of the average cost for each component or practice when the cooperator listed in A above installs the work using his own forces, or 75 percent of the actual cost not to exceed such percentage of the average cost when such cooperator has a component or practice installed by a contractor. This cost to the Service is estimated to be \$108,000.00.
2. Provide authorized assistance; such as, results of tests and studies as may be available, site investigations, design and layout, and drawings and specifications.
3. Provide the services of a Government Representative.
4. Make payment to the Sponsor covering SCS's share of the cost when:
 - a. The technical adequacy and amount of work installed is checked and certified by a Service representative.
 - b. The Sponsor has furnished required certifications and itemized bills for purchases of materials and copies of contractors' invoices when the work is installed by a contractor.
 - c. The Sponsor has submitted to the Service a properly prepared Form SF-270, supported by Certificates of Completion and invoices, if required.

E. It is mutually agreed that:

1. Sponsor-Cooperator agreements will be executed with all potential cooperators listed in A within 120 calendar days after the date SCS has executed this agreement. Any potential cooperators who have not signed a Sponsor-Cooperator agreement by the end of the 120-day period will be deleted from this agreement by amendment.
2. The State Administrative Officer may make adjustments in the estimated cost to the Service set forth in D.1 for performing the work. No adjustment shall change the cost-sharing assistance to be provided by SCS as set forth in D.1, nor reduce funds below the amount required to carry out SCS's share of the work.
3. SCS may terminate this agreement in whole or in part if SCS determines that the Sponsor has failed to comply with any of the conditions of this agreement. SCS is to promptly notify the Sponsor in writing of the determination and reasons for the termination, together with the effective date. Payments made by or recoveries made by SCS under this termination are to be in accord with the legal rights and liabilities of SCS and Sponsor.

4. This agreement may be temporarily suspended by SCS if it determines that corrective action by the Sponsor is needed to meet the provisions of this agreement. Further, SCS may suspend this agreement when it is evident that a termination is pending.
5. SCS, at its sole discretion, may refuse to cost share should the Sponsor elect to proceed without obtaining concurrence as set out in Section C of this agreement.
6. No member of or delegate to Congress, or Resident Commissioner, shall be admitted to any share or part of this agreement, or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.
7. The furnishing of administrative and technical services by SCS as set out in D.2 and D.3 is contingent upon the continuing availability of appropriations by the Congress from which payment may be made and shall not obligate SCS upon failure of the Congress to so appropriate.
8. Any funds collected by the Sponsor from the Cooperator due to violations by the Cooperator under the Sponsor-Cooperator agreement will be prorated between the Sponsor and SCS in the same ratio as funds are contributed under the terms of this agreement.
9. The maximum Federal cost-share to an individual Cooperator under this agreement is \$50,000.

CLARKE COUNTY SOIL CONSERVATION DISTRICT

By: Richard Carson

Title: Chairman

Date: May 21, 1981

This action authorized at an official meeting of Clarke County Soil Conservation District Commissioners on the 21st day of May, 1981, at Osceola, State of Iowa.

Leis W. Manchester
(Signature)

District Clerk
(Title)

BOARD OF WATERWORKS TRUSTEES, CITY OF OSCEOLA

By: Fred Wood

Title: Chairman, Water Board

Date: 5-7-81

This action authorized at an official meeting of Osceola Water Board on the 7th day of May, 1981, at Osceola, State of Iowa.

Don Chase
(Signature)

Secretary
(Title)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

By:



Title: State Conservationist

Date: June 3, 1981

CLEAN AIR AND WATER CERTIFICATION

(Applicable if this agreement exceeds \$100,000, or a facility to be used has been the subject of a conviction under the Clean Air Act (42 U.S.C. 1857c-8(c)(1)) or the Federal Water Pollution Control Act (33 U.S.C. 1319(c)) and is listed by EPA, or is not otherwise exempt.)

The project sponsoring organization(s) signatory to this agreement certifies as follows:

(a) Any facility to be utilized in the performance of this proposed agreement is ☐, is not ☒, listed on the Environmental Protection Agency List of Violating Facilities.

(b) He will promptly notify the State Administrative Officer prior to the signing of this agreement by the Service, of the receipt of any communication from the Director, Office of Federal Activities, U. S. Environmental Protection Agency, indicating that any facility which he proposes to use for the performance of the agreement is under consideration to be listed on the Environmental Protection Agency List of Violating Facilities.

(c) He will include substantially this certification, including this subparagraph (c), in every nonexempt subagreement.

CLEAN AIR AND WATER CLAUSE

(Applicable only if the agreement exceeds \$100,000, or a facility to be used has been the subject of a conviction under the Clean Air Act (42 U.S.C. 1857c-8(c)(1)) or the Federal Water Pollution Control Act (33 U.S.C. 1319(c)) and is listed by EPA or the agreement is not otherwise exempt.)

A. The project sponsoring organization(s) signatory to this agreement agrees as follows:

(1) To comply with all the requirements of section 114 of the Clean Air Act (42 U.S.C. 1857, et seq., as amended by Public Law 91-604) and section 308 of the Federal Water Pollution Control Act (33 U.S.C. 1251, as amended by Public Law 92-500), respectively, relating to inspection, monitoring, entry, reports, and information, as well as other requirements specified in section 114 and section 308 of the Air Act and the Water Act, respectively, and all regulations and guidelines issued thereunder before the signing of this agreement by the Service.

(2) That no portion of the work required by this agreement will be performed in a facility listed on the Environmental Protection Agency List of Violating Facilities on the date when this agreement was awarded unless and until the EPA eliminates the name of such facility or facilities from such listing.

(over)

(2)

(3) To use his best efforts to comply with clean air standards and clean water standards at the facilities in which the agreement is being performed.

(4) To insert the substance of the provisions of this clause in any nonexempt subagreement including this subparagraph (4).

B. The terms used in this clause have the following meanings:

(1) The term "Air Act" means the Clean Air Act, (42 U.S.C. 1857 et seq., as amended by Public Law 91-604).

(2) The term "Water Act" means Federal Water Pollution Control Act (33 U.S.C. 1251 et seq., as amended by Public Law 92-500).

(3) The term "clean air standards" means any enforceable rules, regulations, guidelines, standards, limitations, orders, controls, prohibitions, or other requirements which are contained in, issued under, or otherwise adopted pursuant to the Air Act or Executive Order 11738, an applicable implementation plan as described in section 110(d) of the Clean Air Act (42 U.S.C. 1857c-5(d)), and approved implementation procedure or plan under section 111(c) or section 111(d), respectively, of the Air Act, or an approved implementation procedure under section 112(d) of the Air Act (42 U.S.C. 1857c-7(d)).

(4) The term "clean water standards" means any enforceable limitation, control, condition, prohibition, standard, or other requirement which is promulgated pursuant to the Water Act or contained in a permit issued to a discharger by the Environmental Protection Agency or by a State under an approved program, as authorized by section 402 of the Water Act (33 U.S.C. 1342), or by a local government to ensure compliance with pretreatment regulations as required by section 307 of the Water Act (33 U.S.C. 1317).

(5) The term "compliance" means compliance with clean air or water standards. Compliance shall also mean compliance with a schedule or plan ordered or approved by a court of competent jurisdiction, the Environmental Protection Agency or an air or water pollution control agency in accordance with the Air Act or Water Act and regulations issued pursuant thereto.

(6) The term "facility" means any building, plant, installation, structure, mine, vessel or other floating craft, location or site of operations, owned, leased, or supervised by a sponsor, to be utilized in the performance of an agreement or subagreement. Where a location or site of operations contains or includes more than one building, plant, installation, or structure, the entire location shall be deemed to be a facility except where the Director, Office Of Federal Activities, Environmental Protection Agency, determines that independent facilities are colocated in one geographical area.



United States
Department of
Agriculture

Soil
Conservation
Service

210 Walnut Street
693 Federal Building
Des Moines, Iowa 50309

JUN. 24 1982

Subject: ADMIN SERV - Agreements - Appointment of
Government Representative, Southern Iowa
RC&D Area, West Lake - P.A. 59-6114-1-672

Date: June 21, 1982

To: Keith Edwards
District Conservationist
Soil Conservation Service
Osceola, Iowa

File Code: 120-12

You are hereby appointed Government Representative for the subject project agreement between the Clarke County Soil Conservation District, City of Osceola and Soil Conservation Service. This agreement covers the installation of critical area treatment within the Southern Iowa RC&D area.

As **Government Representative**, you will be responsible for the following principal functions:

- (a) Become thoroughly familiar with the terms and provisions of the project agreement and its applicable Sponsor-Cooperator Agreement.
- (b) Make recommendations to state administrative officer regarding proposed changes by the sponsor in the Sponsor-Cooperator Agreement and in the installation schedule.
- (c) Advise the state administrative officer of any claim(s) that may arise as a result of the performance of installing the land treatment, wildlife mitigation.
- (d) See that an "Installation Schedule of Work" has been developed for each cooperator receiving assistance.
- (e) See that technical assistance (including drawings and specifications) is furnished to the sponsor in a timely manner for providing to the cooperator.
- (f) Measure quantities of acceptable work performed and complete the "Certification of Completion" and furnish copies to the sponsor for submitting with Form SF-270.
- (g) Maintain adequate and accurate records for each cooperator.

Your relationship with the sponsor and the cooperator should be to insure compliance with the terms of the agreements between the various parties. You are to work closely with the state administrative officer and keep



The Soil Conservation Service
is an agency of the
Department of Agriculture

him or her currently informed of progress of the work, problems encountered, and all other pertinent matters.

Insofar as possible, changes of other matters requiring attention should be anticipated before actual needs so that appropriate actions may be taken to prevent unnecessary delay to the installation and completion of the Critical Area Treatment.


Donald K. Ummel
State Administrative Officer

IA-20

CLARKE COUNTY
CENTURY FARMS

★ Audlehelm, Paul & Ruth Ellen Date Purchased: 1893 Year Awarded: 1993
Address: RR 2, Box 2212 City: Osceola ZIP: 50213

Barnard, Eldon Date Purchased: 1884 Year Awarded: 1984
Other owners: Barnard, Frank
Address: RR 4 City: New Virginia ZIP: 50210

Barnard, Frank Date Purchased: 1884 Year Awarded: 1984
Other owners: Barnard, Eldon
Address: RR 4 City: New Virginia ZIP: 50210

Barr, Richard T. & Kathleen L. Date Purchased: 1880 Year Awarded: 1981
Address: RR 3 City: Osceola ZIP: 50213

Barton, Dale E. & Joanne E. Date Purchased: 1869 Year Awarded: 1993
Address: Route 5, Box 167-A City: Osceola ZIP: 50213

Bell, Florence M. Date Purchased: 1856 Year Awarded: 1976
City: Murray ZIP: 50174

Brown, Everett T. & Edith S. Date Purchased: 1862 Year Awarded: 1976
Address: RR 2 City: Weldon ZIP: 50264

Callison, Jack C. & R. Joan Date Purchased: 1868 Year Awarded: 1976
Address: RR 1 City: Murray ZIP: 50174

Carson, Richard Date Purchased: 1855 Year Awarded: 1976
Address: RR 1 City: Woodburn ZIP: 50275

Cellman, Carol K. Date Purchased: 1884 Year Awarded: 1986
City: New Virginia ZIP: 50210

Chew, Mildred E. Date Purchased: 1865 Year Awarded: 1979
Other owners: Montelle, Cecil
Address: RR 3 City: Osceola ZIP: 50213

Cochran, Lowell C. Date Purchased: 1867 Year Awarded: 1976
Address: RR 3, P.O. Box 80 City: Osceola ZIP: 50213

Donner, Marie Date Purchased: 1868 Year Awarded: 1979
Other owners: Leachman, Pauline
Address: RR 1 City: Murray ZIP: 50174

Eddy, Oral L. Date Purchased: 1882 Year Awarded: 1986
Address: RR 3 City: Osceola ZIP: 50213

Edgington, Samuel A. & Joan E. Date Purchased: 1887 Year Awarded: 1987
Address: Rt. 5 City: Osceola ZIP: 50213

Elliot, Ardith N. Date Purchased: 1875 Year Awarded: 1976
Address: RR 3, P.O. Box 23 City: Osceola ZIP: 50213

Fenn, Clarence Date Purchased: 1888 Year Awarded: 1990
Address: RR 1, Box 38 City: Murray ZIP: 50174

Fenn, Clarence Date Purchased: 1893 Year Awarded: 1993
Address: RR 1, Box 38 City: Murray ZIP: 50174

P.2 of 4

CLARKE COUNTY
CENTURY FARMS

Folger, Ward Date Purchased: 1856 Year Awarded: 1976
Address: RR 5 City: New Virginia ZIP: 50210

Gaumer, Loren Date Purchased: 1864 Year Awarded: 1976
Address: RR 1 City: Murray ZIP: 50174

Green, Floyd & Thelma Date Purchased: 1871 Year Awarded: 1980
Address: RR 1 City: New Virginia ZIP: 50210

Henderson, John C. & Janice Date Purchased: 1861 Year Awarded: 1976
Address: RR 2 City: Osceola ZIP: 50213

Hughes, Glen & Helen Date Purchased: 1861 Year Awarded: 1976
Address: RR 2 City: Osceola ZIP: 50213

Hunt, Robert Leland Date Purchased: 1860 Year Awarded: 1976
Address: RR 3 City: Osceola ZIP: 50213

Jamison, Raymond D. & Shirley Date Purchased: 1853 Year Awarded: 1976
Address: RR 1 City: Weldon ZIP: 50264

Johnson, Paul F. Date Purchased: 1856 Year Awarded: 1976
Address: RR 1 City: Murray ZIP: 50174

Jones, James W. Date Purchased: 1878 Year Awarded: 1978
Address: RR 1 City: Grand River ZIP: 50108

Keeler, M.H. & Leah Date Purchased: 1860 Year Awarded: 1976
City: Weldon ZIP: 50264

Keer-Nine, Lola Date Purchased: 1856 Year Awarded: 1976
Address: RR 1 City: New Virginia ZIP: 50210

Leachman, Pauline Date Purchased: 1868 Year Awarded: 1979
Other owners: Donner, Marie
Address: RR 1 City: Murray ZIP: 50174

Little, Albert F. Date Purchased: 1882 Year Awarded: 1984
Address: RR 2 City: Murray ZIP: 50174

Luce's Inc., Date Purchased: 1872 Year Awarded: 1982
Address: RR 3 City: Osceola ZIP: 50213

Maharry, Lucille Date Purchased: 1884 Year Awarded: 1991
Other owners: Mabel Pine
Address: RR City: Murray ZIP: 50174

McNeil, John (Heirs of Estate) Date Purchased: 1860 Year Awarded: 1986
Address: RR 1 City: Murray ZIP: 50174

Miller, Lloyd H. Date Purchased: 1882 Year Awarded: 1982
Address: RR 3 City: Osceola ZIP: 50213

Montelle, Cecil Date Purchased: 1865 Year Awarded: 1979
Other owners: Chew, Mildred E.
Address: RR 3 City: Osceola ZIP: 50213

CLARKE COUNTY
CENTURY FARMS

Offenburger, D. Vivian (Mrs.) Date Purchased: 1866 Year Awarded: 1976
Address: RR 1 City: Woodburn ZIP: 50275

2 Patterson, Lester L. Date Purchased: 1874 Year Awarded: 1976
Address: RR 2 City: Osceola ZIP: 50213

Pine, Mabel Date Purchased: 1884 Year Awarded: 1991
Other owners: Lucille Maharry
Address: RR City: Murray ZIP: 50174

Powell, Glen & Jessie Date Purchased: 1873 Year Awarded: 1976
Address: RR 1 City: Woodburn ZIP: 50275

Powell, Glen & Jessie Date Purchased: 1871 Year Awarded: 1976
Address: RR 1 City: Woodburn ZIP: 50275

Powell, Glen & Jessie Date Purchased: 1874 Year Awarded: 1976
Address: RR 1 City: Woodburn ZIP: 50275

Ramsey, Harley A. (Mrs.) Date Purchased: 1855 Year Awarded: 1976
Address: 801 Roosevelt Boulevard City: Osceola ZIP: 50213

Reasoner, Lyle D. & Bonnie Date Purchased: 1856 Year Awarded: 1976
Address: RR 1 City: Grand River ZIP: 50108

Reed, Guy M. Date Purchased: 1868 Year Awarded: 1976
Address: RR 5 City: Osceola ZIP: 50213

Sanders, Eldon & Ruth Date Purchased: 1856 Year Awarded: 1976
Address: RR 1 City: Weldon ZIP: 50264

Smith, Earnest C. Date Purchased: 1882 Year Awarded: 1985
Address: RR City: Woodburn ZIP: 50275

Soll, Elvin, Irvin, Donovan & Duane Date Purchased: 1881 Year Awarded:
1983
Address: 223 2nd City: Murray ZIP: 50174

Vonasek, Donald & JoDee Date Purchased: 1867 Year Awarded: 1977

Vonasek, JoDee Date Purchased: 1868 Year Awarded: 1977

Wolfe, Leonard & Ruth Date Purchased: 1875 Year Awarded: 1976
Address: RR 1 City: Murray ZIP: 50174

Judy

CLARKE COUNTY CENTURY FARMS

2002

Everett and Virginia Fenn
1743 130th Avenue
Murray, IA 50174
(Troy Twnshp)

Paul Loy
1066 Lilac Street
Murray, IA 50174
(Troy Twnshp)

2001

Susan McNeil, Barbara Gittis, Lynn Woods
RR Osceola
East of Osceola in Osceola Twnshp section 9

2000

Guy Reed
2449 Oakwood Street
Osceola, IA
(Fremont Twnshp)

1999 1998 1997

none

1996

Bell Farm Corp, Robert & Kathryn
2098 Idaho Place
Osceola
(Ward twnship)

1995

none

1994

no record

1993 and beyond see attachment

West Lake Watershed

An Opportunity for Enhancement

BOARD ONE

THE ISSUE

Introduction

- West Lake Watershed lies just northwest of Osceola, Iowa in Clarke County.
- The watershed consists of 6340 acres and is primarily agricultural.
- A dam was constructed on South Squaw Creek in 1933-1934 to create the lake.
- The 306 acre lake serves as the water source for the town Osceola, population 4659.
- Over the years, development and agricultural practices have led to the sedimentation of the lake and the contamination of the waters.
- One of the primary sources of contamination has been the herbicide Atrazine (a chemical used by many in the farm community for the control of broadleaf weeds and some grasses in corn).
- In 1998 it was determined that the level of atrazine exceeded the acceptable levels for safe drinking water and a TMDL (Total Maximum Daily Load) for the watershed was written to require a plan be developed to bring the level of Atrazine into compliance
- This Plan accomplishes that goal. Although sediment and nutrients are not on the list of impairments to the lake, the practices that have a positive impact on Atrazine will also minimizing those potential problems

About Atrazine

Since atrazine has been identified as the major pollutant for West Lake the following information gives answers to the most frequently asked questions on the herbicide.

What is Atrazine?

Atrazine is a herbicide that selectively controls broadleaf weeds and certain grass weeds in fields of corn and sorghum. Selective control means that the target weeds are controlled with little or no injury to the crop. Atrazine is well tolerated by actively growing corn and sorghum, which absorb and metabolize the herbicide and thereby detoxify it. Atrazine is widely used today because it is economical and effectively reduces crop losses due to weed interference. Its use can also reduce or eliminate the need for inter-row cultivation in corn and sorghum fields.

Why is there so much attention on atrazine and drinking water?

Atrazine is one of the most widely used herbicides in the United States. Once atrazine is applied, it begins to degrade through the action of soil microbes that use it as an energy source, and through chemical reactions with water. Half-life is defined as the length of time required for half of a pesticide to degrade. Under moist and warm conditions, the half-life of atrazine in topsoil is about 60 days. In subsurface soils or in water, atrazine's half-life is generally longer. The combination of widespread use and relative persistence in the environment help account for its frequent detection in surface and ground waters. The EPA has set the drinking water health limit for atrazine at 3 parts per billion (ppb). West Lake has slightly exceeded that count and thus motivated this study (plan).

How toxic is atrazine?

Toxicity is measured in different ways. Acute oral toxicity is a measure of how poisonous or toxic a substance is when swallowed in a single dose. The **acute oral toxicity** of atrazine in laboratory rats is 5100 mg/kg. If we assume the acute oral toxicity in humans is the same as that in laboratory rats, then a 150-pound person would have a 50 percent probability of dying from ingesting about .75 pound of atrazine in a single dose. By comparison, one half pound of table salt or 2.5 ounces of aspirin would produce the same probability of death by acute poisoning.

Chronic toxicity is an estimate of how a substance would affect an organism over a long period of time--a life span, for example--at very low levels of exposure. The EPA has established a 3 ppb safety level for atrazine, which has a 5000-fold safety factor. This is the concentration of atrazine that the EPA considers safe to consume in drinking water over an average 70-year human life span.

What are some management practices that can be used to reduce atrazine runoff from fields?

- Residue management (including the following) will reduce water run off and sediment
 - Mulch-till
 - No-till
 - Ridge-till
- Use of alternative herbicides
- Crop rotation
- Herbicide rotation
- Band application
- Soil incorporation
- Post-emergence application
- Early pre-plant application
- Split application with low rates

- Reduced rates and combination products

Local farmers have adopted many of these measures over the last few years in voluntary efforts to reduce contamination with the product.

All of these methods are considered short-term, i.e. affecting the year of their implementation only.

What are some conservation practices that reduce atrazine and other pollutants from entering the water system in the long term,

Since atrazine leaves a field in a dissolved or solution phase (over 90 percent) or carried on eroding soil sediment, the following specific conservation practices offer longer term structural tools to help reduce the amount of atrazine and other pollutants from entering the water system every year they exist:

- Ponds
- Constructed wetlands
- Shallow water wild life areas (shallow water ponds)
- Riparian buffers
- Grassed filter strips
- Grasses waterways
- Bio-swales

Tile inlet terraces, constructed by a number of local farmers to promote conservation, have been found to adversely affect the atrazine problem. Even though sedimentation is reduced, water actually leaves the field without significant slowing or benefit of filtering.

Although the control of atrazine as a pollutant is an important goal of this planning activity it is not the only criteria for the development of this plan. A group of local stakeholders was assembled to determine additional goals that would result from landscape enhancement activities in the watershed.

PLAN PROCESS (resolving the issue)

The planning process utilized for West Lake is a process developed by Trees Forever known as the VIEW (Visual Investments to Enhance Watersheds) Process. This process involves local stakeholders, a Trees Forever facilitator, and a landscape architect/land planner/regional planner in the assessment and design of targeted best management practices for the watershed.

The major stakeholders in the process are watershed landowners and operators. In addition to the rural (residential and farming) community this also includes Lake Side Casino, Proposed Signatures Golf Development, the City of Osceola, Clarke County, the Iowa Department of Transportation, B&N Railroad, Clarke County Soil and Water Conservation District, and all residents of Osceola as water users of the lake.

Brad Riphagen (Field Coordinator with Trees Forever), Roger Hunt (Site Design Specialist with Trees Forever), and John Paulin (Landscape Architect with the Natural Resources Conservation Service) led the local stakeholders through the following watershed landscape planning process to determine strategies to enhance the environment at West Lake.

Plan Process:

- Define the problem
- Determine the boundaries
- Determine the stakeholders
- Site Assessments (gathering of data)
 - Natural resource
 - Visual resource
 - Historical/Cultural (Human) resource
- Analysis of data
- Goal setting
- Preliminary plan
- Presentation / public discussion
- Prepare final plan
- Develop implementation strategy
- Presentation of final documents
- Implementation
- Evaluation

Public Involvement

It is very important for the local stakeholders to be engaged in the process. Their understanding of the problem, ideas for solution, and commitment to follow through with the plan is essential for success. In the beginning the public participation was encouraging.

The **first meeting** introduced the area residents and organizations to the West Watershed Planning Opportunity. It seemed that with West Lake on the Impaired Waters list and with a TMDL for Atrazine, developing a plan for implementation of conservation measures to reduce chemical and silt runoff to the Lake would be a prudent step in realizing a healthier water body and water source for the city of Osceola. Approximately 58 people attended the meeting. Twenty-eight indicated an interest to be involved in the process. Major concerns for the watershed were: 1) proposed solutions should not burden landowners (funding possibilities), 2) watershed inadequate to meet the water needs of Osceola (need for a new lake), 3) erosion (field and stream bank), 4) atrazine contamination of the lake, 5) non-agricultural development, and 6) recreational opportunities.

The **second meeting** was a more detailed discussion of the planning process: Resource Assessment Process, Goal Setting and Prioritization, Concept Plan Development, Concept Plan Review, Plan Refinement, Plan Implementation and Evaluation. During that meeting those in attendance were asked to do a Visual Assessment for the watershed by taking pictures within the watershed that displayed what each individual thought was visually attractive and/or represented a positive feature within the watershed. Conversely they were asked to also photograph what they saw as visually disturbing or represented land management practices not in harmony with the best interests of a healthy watershed.

They were also asked to prepare a Historical and Cultural Assessment that spoke to the issues of:

- How West Lake came to be (purpose and time line for development/change)
- Historical features within and near the watershed
- Centennial or sesquicentennial farms in the watershed
- The management/administration of the watershed

This information was to be presented at the forth meeting. Approximately 12 people attended meeting 2.

The **third meeting** was a meeting for watershed farmers. Eight attended. The topic was atrazine issues, the use of Best Management Practices (BMP's) to reduce atrazine runoff, and low-atrazine and no-atrazine herbicide alternatives. The EQUIP program of payments for use of non-atrazine alternatives (that Dennis Schrodt Clarke County Natural Resource Conservation Service [NRCS] District Conservationist arranged) was an outcome of this meeting, as this was the farmers' first choice as a potential solution.

The **forth meeting**, delayed for a week to allow more time for the participants, was to review the findings for the Visual and Historical/Cultural Assessments. Only two sets of pictures were taken of the 8-12 anticipated. Those taken, fully embodied what was requested. The Historical/Cultural Assessment report highlighted the purpose and timeline for development of West Lake. Information regarding the historic farms and other historic places still needed to be investigated. Although those in attendance agreed to take more pictures of the watershed that task was never accomplished.

The **fifth meeting** to tour the watershed, review the assessment findings, set goals and establish priorities had to be cancelled because of a lack of response.

Even though the local interest was waning, a number of opportunities were identified for enhancing the watershed: developing strategies to improve water quality, enhancing wildlife habitat and recreational opportunities, reducing soil erosion, and setting guidelines for future development. It was felt that preparing a Preliminary Plan based on existing input was desirable and could serve to motivate a new interest in the project. The Preliminary Plan will be presented at different venues around town to give all stakeholders and opportunity to view suggested actions and to respond at a public meeting.

BOARD TWO

Natural Resource Assessment

Vegetation: The landscape of the watershed prior to European settlement was primarily prairie. Tall prairie grasses like Big Bluestem, Indian Grass and Switch Grass dominated the region and formed a protective and soil building cover that allowed rainwater to be slowed and to infiltrate into the soil. Some tree canopy existed along stream banks and in small groves (savannas). This provided a healthy wildlife ecology and environment.

Agriculture became the primary land use as European settlement began. Today (according to 2001 data) 2644 acres are devoted to row crops (1673 corn - 971 beans), 927 acres in the Conservation Reserve Program (CRP), and 1100 acres to pasture/hay land.

Soils: There are three dominant soil associations within the watershed. They are:

1. Shelby-Lamoni-Arispe Association
2. Gara-Armstrong-Pershing Association
3. Grundy-Haig-Arispe Association

Topsoil depth ranges from 7-10 inches. Generally the soils are moderately well drained except for the Grundy-Haig-Arispe Association, which is somewhat poorly drained.

Minor soils of consequence in the watershed are:

1. Clarinda
2. Colo
3. Olmitz
4. Zook

These soils are generally poorly drained and exist in the bottomlands and adjacent to streams or drainage-ways, and on convex side slopes.

Hydrology: The three main surface water features in the watershed are South Squaw Creek (which supplies West Lake), West Lake and farm ponds. There are over 50 agricultural/recreational ponds. Most of these ponds are used as a source of water for livestock. The quality of these water features depends on the management of the lands contributing to the water resource. Most of these ponds are surrounded by hay or pasture ground.

Topography: West Lake watershed lies within the southern Iowa drift plain. This, the largest of Iowa's landforms, is characterized by well-connected drainage systems that are sometimes carved deeply into the land surface. The overall character of the landscape is gently to moderately rolling. Grades range from flat (2% or less on bottomland areas and ridge tops) to steep (18-25% found mostly near the lake). Control pool elevation is 1062' compared to a high elevation of 1180', an elevation change of 118'. A three dimensional topographic model was constructed to provide a visual to help stakeholders see the overall topographic character of the watershed.

BOARD THREE

Visual Resource Assessment

What can be seen on the landscape gives us clues as to how healthy the watershed is. Gullies, bare ground, junk, large expanses of hard surface paving, short cropped pastures, soil erosion, etc. may signal excessive runoff or other conditions that could result in or are symptomatic of erosion, sedimentation, and pollution.

Scenic quality or landscape beauty reflects the pride in stewardship of the landowners and the harmony of nature that contributes to personal enjoyment in the watershed.

Historical /Cultural Assessment

West Lake watershed is the primary source of water for the town of Osceola, Iowa since 1934.

Agriculture is the primary function of the watershed. According to NRCS data there are 35 agricultural land users. Two Centennial Farms (farms that have been in the same family for 100 years or more) are located in the watershed. They are the Paul Audelhelm farm and the Merle Paterson farm.

Lakeside Casino is a major feature in the watershed. Lakeside Casino Resort owns approximately 107 acres of land on the northeast edge of the lake. An estimated 1 million people visit each year and 500 – 600 employees operate the restaurant, hotel and game rooms. The parking lot can hold approximately 1000 vehicles. According to a DNR fact sheet, "Repairing the Impaired" the casino complex is not listed as a contributor of point source or non-point source pollution.

Signatures Golf Course Development is a proposed residential and golf course development to be located just north of West Lake. The concept plan calls for an 18-hole golf course and 73 residential sites on approximately 170 acres. This is the first rural subdivision in the area.

BOARD FOUR

Proposals for Agricultural Lands

Farmers in the watershed have been receptive to conservation practices that control erosion and pollution. They have installed waterways, farm ponds, terraces, tile inlet terraces, and other measures to promote a healthier environment. They are also beginning to adopt management practices mentioned on Board 1 that will help in the pursuit of higher water quality.

Analyzing existing conditions in the watershed reveals that there are conditions that are likely to be more prone to contributing to the contamination problem. These conditions are:

- Cropland contributes more than hay, pasture, or woodland.
- Cropland adjacent to the Lake has a greater chance to cause a problem than fields further away from the lake.
- Cropland adjacent to a perennial stream is more likely to contribute to the problem than one further away.
- Cropland using tile inlet terraces can contribute more to pesticide pollution.

Likewise there are conditions that can diminish a contamination problem. These conditions are:

- Land that is left fallow (either woodland or grass land) next to a water feature. An example would be an undisturbed woodland or a field in CRP (Conservation Reserve Program) or hay ground
- Fields that have conservation practices known to diminish erosion and promote ponding or infiltration (farm ponds, wetlands, grasses waterways, filterstrips, etc.)
- Practicing conservation best management practices such as; no-till, mulch-till, and ridge-till, crop rotation, herbicide management, etc.

Evaluating these conditions throughout the watershed has produced three priority areas for action. These areas are identified on the map.

Priority One: Those fields that are least protected next to the lake.

Priority Two: Those fields that are least protected next to perennial streams.

Priority Three: Those fields that are least protected in upland areas that exhibit gully erosion.

Farmers' willingness to cooperate, the priority areas, and funding options can be used to determine strategies for implementation of conservation practices.

Ways to slow the water to improve infiltration and filtration include: creating wetlands, ponds, shallow water wildlife areas, and/or filter strips and waterways of native grasses. Utilizing native grasses will improve infiltration and soil structure.

Constructed Wetlands/ Shallow Water Wildlife Areas: Wetlands/Shallow Water Wildlife Areas vary widely in size, shape and type. They may have standing water year-round or may hold surface water for only part of the year.

How It Helps

The many values of wetlands are only recently being fully understood and appreciated. Among the benefits of wetlands are:

- Wetlands can provide natural pollution control. They remove nutrients, pesticides and bacteria from surface waters and can act as efficient, low cost sewage and animal waste treatment practices.
- Wetlands filter and collect sediment from runoff water.
- Because wetlands slow overland flow and store runoff water, they reduce both soil erosion and flooding downstream.
- Many wetlands release water slowly into the ground, which recharges groundwater supplies.
- All of America's ducks and geese depend on wetlands for breeding, nesting, and feeding habitat. More than 5,000 plant species, 190 species of amphibians, and one-third of all native bird species are supported by wetlands.
- The ecological diversity of wetlands can offer one of the most beautiful and aesthetically pleasing features of a farm.

Riparian Buffers: A variety of desired tree species, shrubs and/or grasses (either seedlings or seeds) are planted mechanically or by hand along streams, ponds, or lakes in under stocked woodlands or open fields. Plantings are matched with soil types and selected to prevent soil erosion, increase income, or boost productivity of existing land.

How it helps

- Improving stands of woodlands can increase profits.
- Ground cover created by trees and associated debris protects soil from rill and sheet erosion.
- Ground cover also protects water quality by filtering excess nutrients and chemicals from surface runoff and increasing infiltration rates.
- Healthy, well-managed woodlands provide long-term wildlife habitat.
- Grass, trees and shrubs provide cover for small birds and animals.
- The vegetative strip moves row crop operations farther from a stream.
- Vegetation prevents contaminants from entering water bodies, protecting water quality

Filter Strips: Strips of grass slow water flow and cause contaminants like sediment, pesticides, and fertilizers to collect in vegetation. Collected nutrients are used by the vegetation, rather than entering water supplies. Filtered water then enters water bodies.

How it helps

- Grass provides cover for small birds and animals.
- Ground cover reduces soil erosion.
- The vegetative strip moves row-crop operations farther from a stream.
- Vegetation prevents contaminants from entering water bodies, protecting water quality.

All of these practices benefit from the use of native species of plant material. Native trees, shrubs and grasses are adapted to the local climate and are more sustainable than introduced species. In Iowa native warm season grasses are extremely deep rooted and fibrous and create a very absorptive/filtering condition.

Model Projects:

Model Project #1 is located in a priority two area. A constructed wetland is proposed adjacent to a perennial stream. It will filter approximately 80 crop acres that are equipped with tile inlet terraces on the Dale Stephenson farm. The wetland would be planted with native species of trees, shrubs and grasses. Water filtration, improved wildlife habitat and aesthetics would be the major products of the action.

Model Project #2 is located in a priority two/three area. A shallow water wildlife area (SWWA) is proposed to repair a developing gully situation. The field is currently in a pasture rotation. The proposed SWWA will include native plantings of trees and warm season grasses, limited access drinking locations for the livestock, and 13 paddocks for managed intensive grassing. The approximately 40 acre field is on the Sydney Gross farm. Improved pastures and livestock grazing conditions, eliminating a gully condition, and aesthetics would be the products of the action.

BOARD FIVE

Signatures Golf Development

The Signatures Golf Development represents rural residential housing and an 18 hole golf development proposal that has received some interest. The close proximity to Interstate 35, Lakeside Casino, Osceola, and the anticipated construction of a second lake for Osceola's water supply give some credence such a proposal.

"The course will have a "Prairie Architecture" feel to it, with lush blue grass fairways edged by native grasses and wild flowers. The golf course is routed over gently rolling terrain, past small stretches of wetlands, through a meandering plain and past small patches of hardwoods."

"The course is overlooked by century old Bur Oaks that once dominated the Iowa native landscape. The no mow areas will be dominated by tall grass prairie species, as well as, colorful flowering forb species. These no mow areas will decrease maintenance cost and reduce irrigation needs. In the winter these natural areas will provide dense habitat for small animals living on the site. Tall grass prairies have deep root structures and will drastically slow down surface runoff. The deep roots of these prairie grasses act as a wonderful filtering system."

These quotes are taken from the web site for Signatures Golf Course development. If the community feels a recreational/residential development is acceptable within the watershed, the concept proposed is reasonable. Storm water management practices shown on this board should be utilized to promote water quality. Any diminished attention to the proposed concept should not be allowed. Additionally, storm water management during construction should receive the highest priority.

BOARD SIX

Opportunities for Public Recreation - Lakeside Casino /The City

Lakeside Casino Resort is located on the northeast shores of West Lake. The casino boat SS Osceola (37480 sq. ft. of deck space) is docked on the lake. It can hold up to 2150 passengers. Other features include a 60-room Resort Hotel Conference Center, restaurant, and RV park. Parking is provided for 996 cars, truck parking and 16 bus spaces.

A number of opportunities exist to enhance and promote the natural environment of the City owned lands and the Casino facility.

- Develop bio-swales (natural filters) to intercept storm runoff from parking area (see plan and image edits)
 - Runoff from parking lots contain petroleum based pollutants that float to the surface in retention ponds and quickly exit the pond through pond drain pipes
 - Plant material will soften the expanse of hard-surfaced parking, create a more pleasing pedestrian scale, and help in the filtration process
- Plant more of site to native grasses and wildflowers
 - Will reduce the regular mowing schedule
 - Allows more infiltration/filtration of water
 - Provides color and seasonal interest
 - Could be tourist attraction
- Screen service yard from entrance drive (see plan and image edits)
 - Provides more appealing entrance/exit impression
- Integrate natural attractions of nature with gaming and conference activities to take full advantage of unique natural setting
 - Create fishing piers and observation shelters near lake (see image edits)
 - Create paddle boat and canoe opportunities
 - Create pedestrian access to lake on south side of Conference Center/Hotel (see image edits)
 - Create fishing piers and observation shelters near lake (see image edits)
 - Create paddle boat and canoe opportunities
 - Develop nature/interpretive trail system around lake (see plan and image edits)



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 18, 1990

Edwin G. Ratashak, Jr.
R.R. 2, Box 238
Osceola, IA 50213

Dear Ed:

At an official meeting of the District Commissioners, of the Clarke County Soil and Water Conservation District, you were designated as the **Authorized Representative** of the District. You are hereby appointed with full authority to act for the District in administering the various agreements entered into between the District and the Soil Conservation Service, and the District and Cooperating Landowners, for the installation of critical area treatment within the Clarke County portion of the West Lake Project Measure.

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You will work closely with the State Administrative Officer, the Government Representative, and other representatives of the Soil Conservation Service and cooperators in performing your duties. These duties include, but are not necessarily limited to the following:

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Edwin G. Ratashak, Jr.
January 16, 1990
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6. Dispose of all claims resulting from the work under the Sponsor-Cooperator Agreements; secure prior written approval of the State Administrative Officer when Service funds are involved.

Sincerely,

A handwritten signature in cursive script that reads "Richard Carson". The signature is written in dark ink and is positioned above the printed name and title.

Richard Carson, Chairman
Clarke County Soil & Water Conservation District

RC:1wm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 18, 1990

Mrs. Betty Webb
R.R. 2, Box 159
Osceola, IA 50213

Dear Betty:

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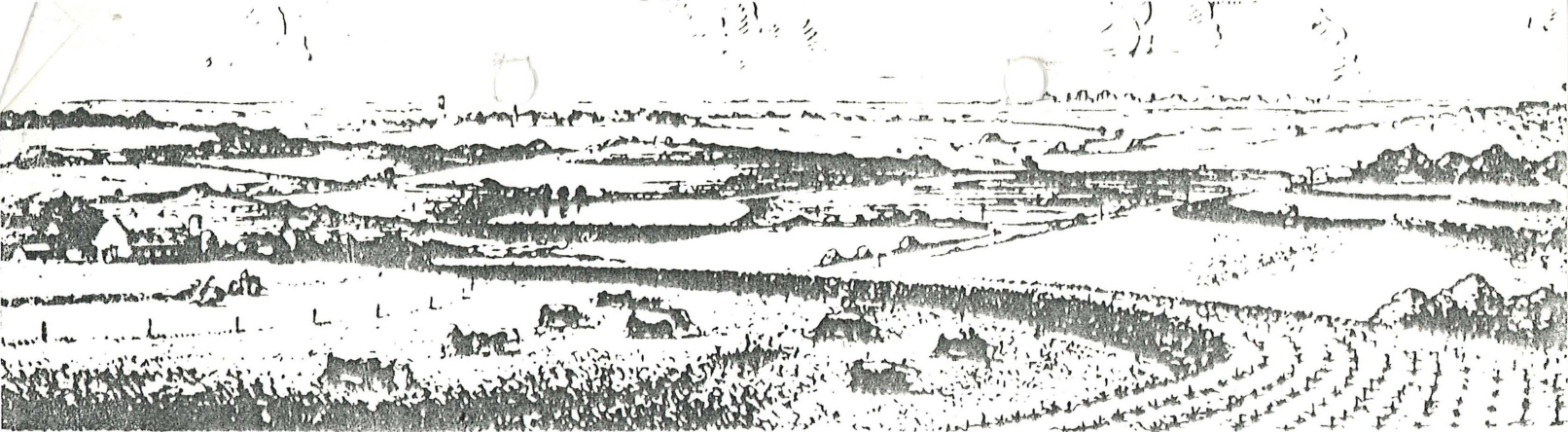
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Sincerely,

A handwritten signature in cursive script that reads "Richard Carson".

Richard Carson, Chairman
Clarke County Soil & Water Conservation District

RC:lwmm



CLARKE COUNTY SOIL AND WATER CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 24, 1989

Edwin G. Ratashak, Jr.
R.R. 2
Osceola, IA 50213

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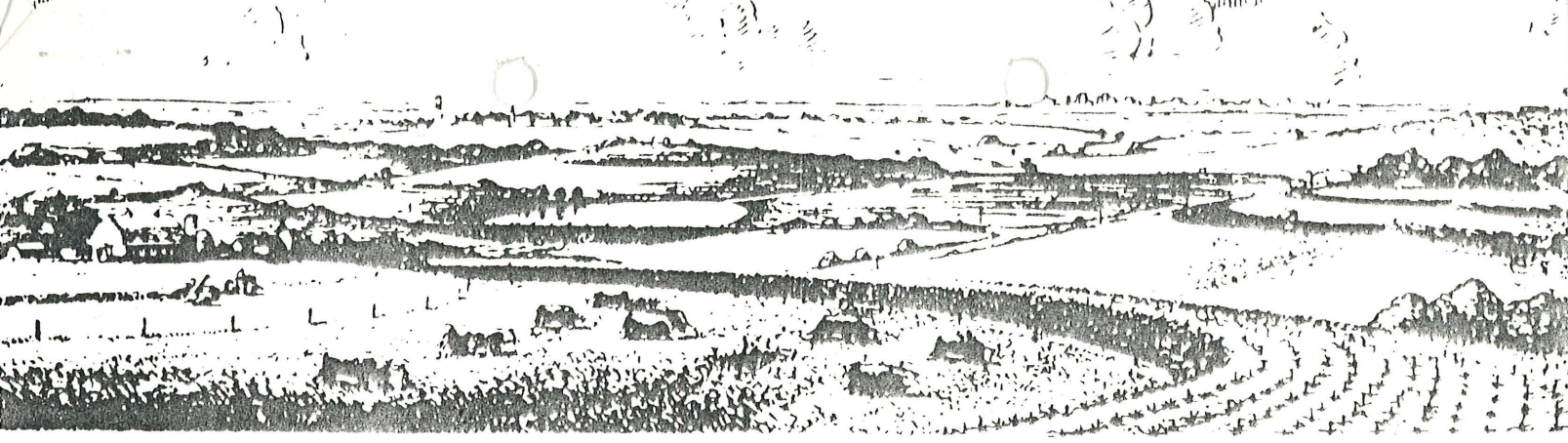
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Richard Carson, Chairman
Clarke County Soil & Water Conservation District

RC:lwm



CLARKE COUNTY SOIL AND WATER CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

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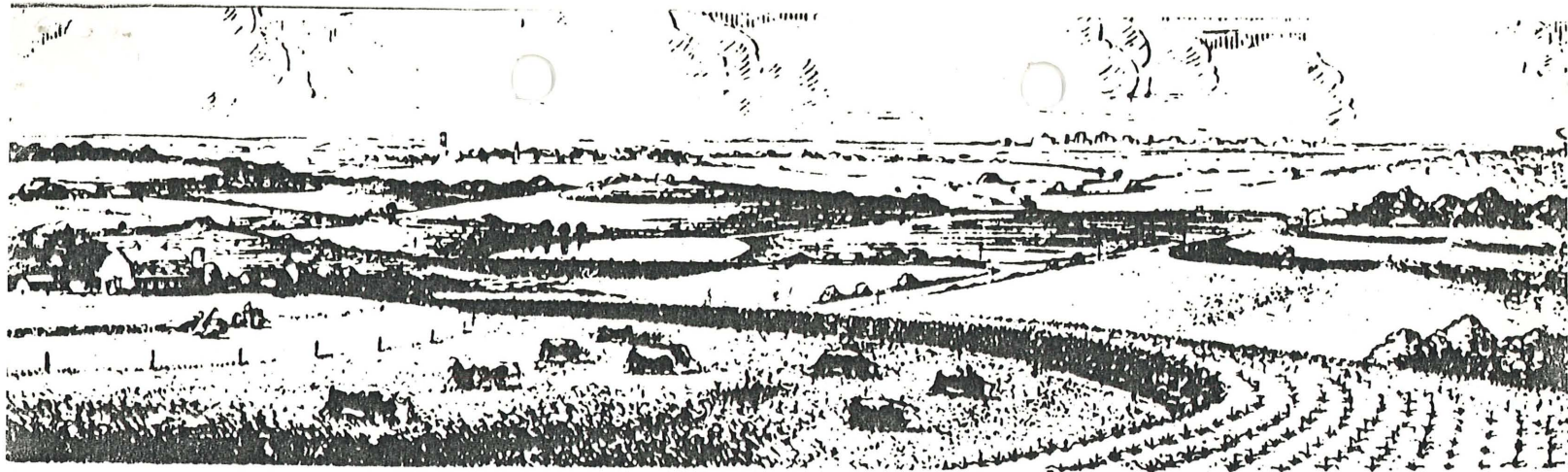
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Richard Carson, Chairman
Clarke County Soil & Water Conservation District

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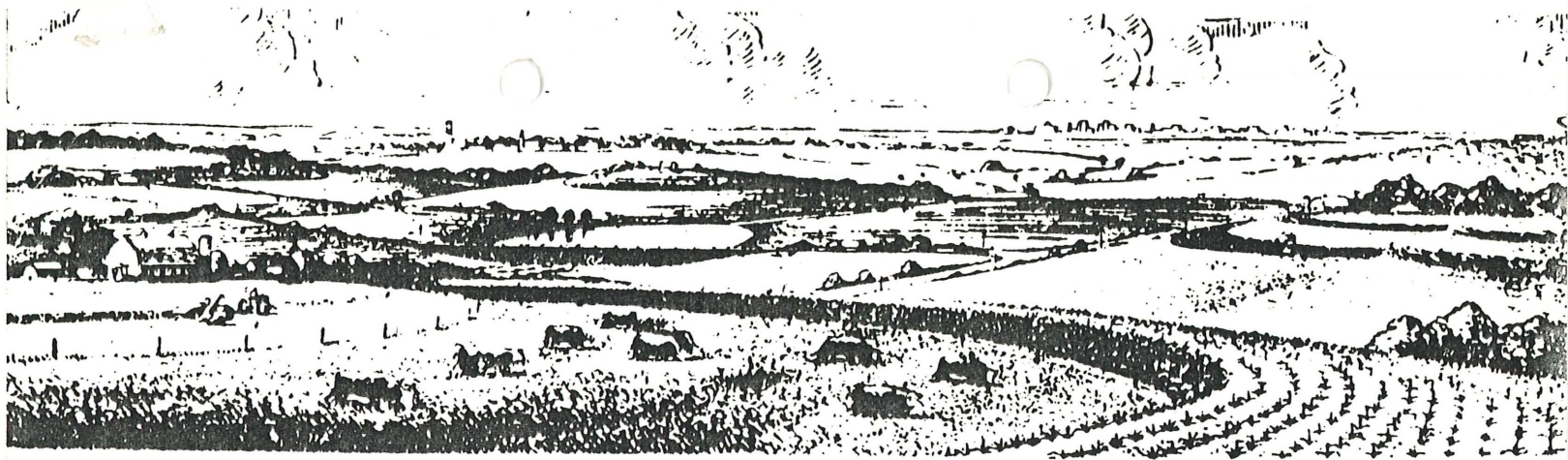
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Richard Carson, Chairman

Clarke County Soil & Water Conservation District

RC:lwm



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820 A North Main Street

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CLARKE COUNTY SOIL CONSERVATION DISTRICT

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February 4, 1987

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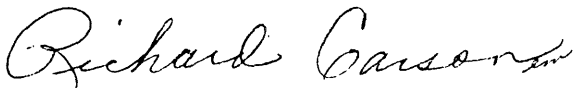
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January 6, 1986

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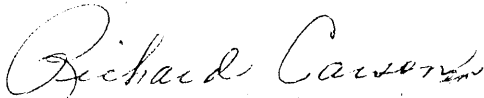
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Edwin G. Ratashak, Jr.
January 6, 1986
Page 2

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6. Dispose of all claims resulting from the work under the Sponsor-Cooperator Agreements; secure prior written approval of the State Administrative Officer when Service funds are involved.

Sincerely,

A handwritten signature in cursive script that reads "Richard Carson".

Richard Carson, Chairman
Clarke County Soil Conservation District

RC:lwmm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 6, 1986

Mr. E. John Camp
R.R. 2
Osceola, Iowa 50213

Dear John:

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E. John Camp
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Richard Carson, Chairman
Clarke County Soil Conservation District

RC:lwm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 4, 1985

Edwin G. Ratashak, Jr.
R.R. 2
Osceola, Iowa 50213

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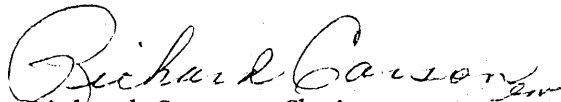
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Edwin G. Ratashak, Jr.
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Sincerely,

A handwritten signature in cursive script that reads "Richard Carson". The signature is written in dark ink and is positioned above the printed name.

Richard Carson, Chairman
Clarke County Soil Conservation District

RC:lwm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 4, 1985

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R.R. 2
Osceola, IA 50213

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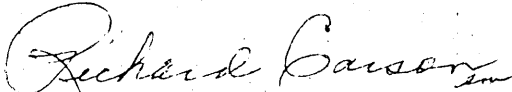
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E. John Camp
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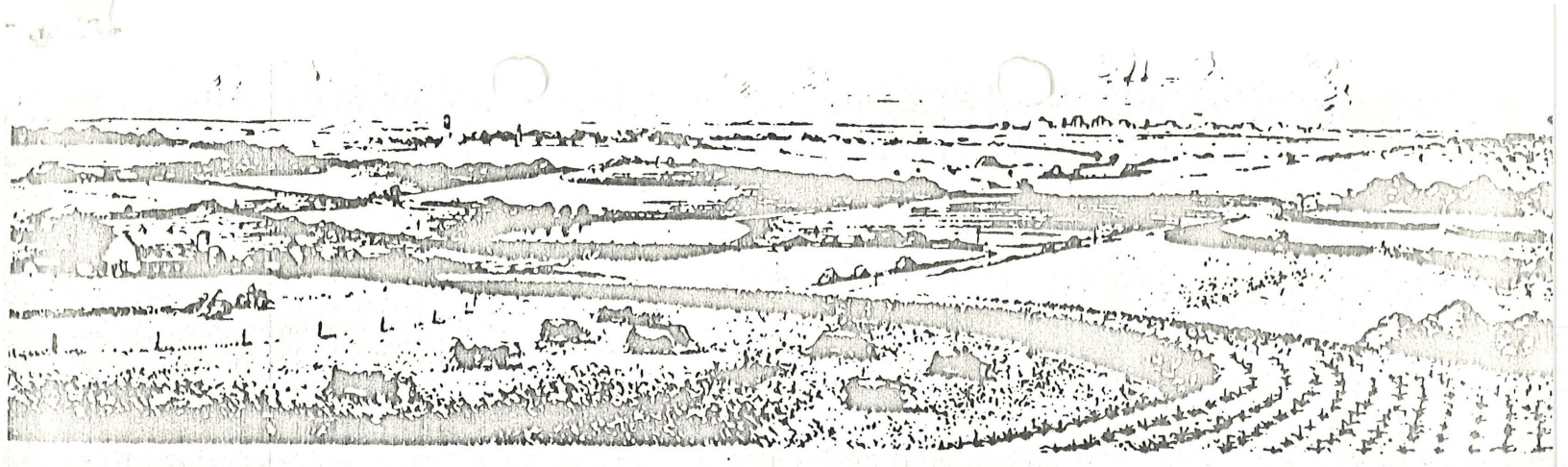
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Richard Carson, Chairman
Clarke County Soil Conservation District

RC:lwmm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 25, 1984

Edwin G. Ratashak, Jr.
R.R. 2
Osceola, Iowa 50213

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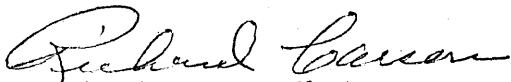
Edwin G. Ratashak, Jr.

January 25, 1984

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Sincerely,



Richard Carson, Chairman

Clarke County Soil Conservation District

RC:lwm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 25, 1984

Mr. John Klein
R.R. 1
Woodburn, Iowa 50275

Dear John:

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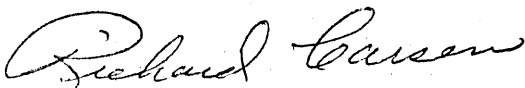
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John Klein
January 25, 1984
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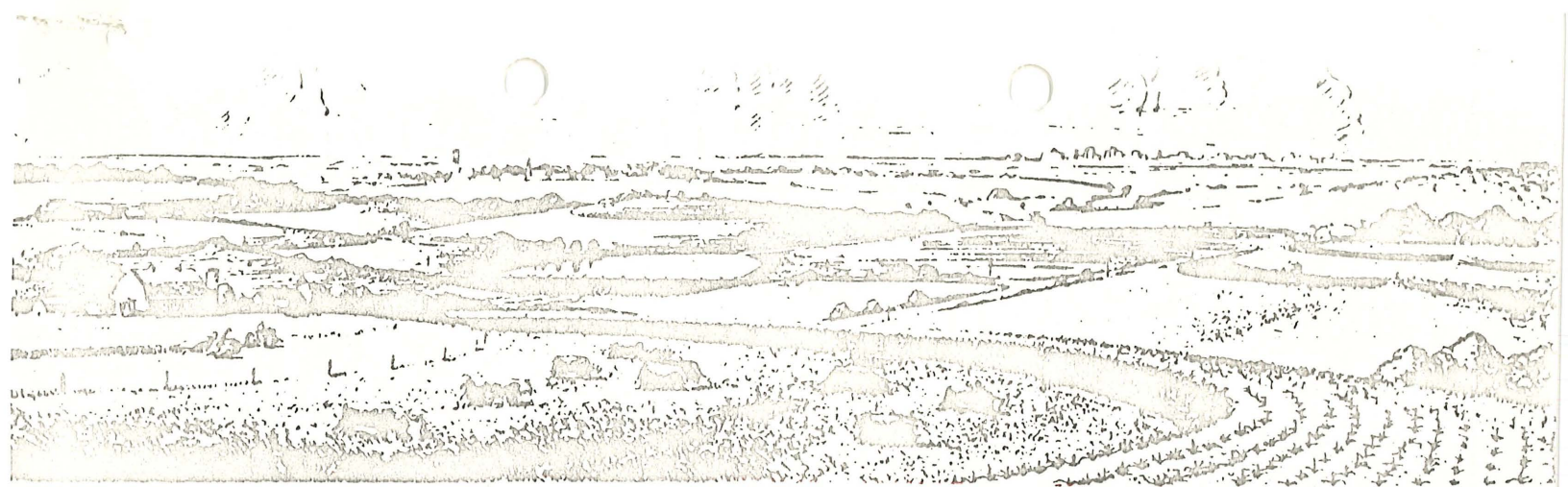
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Richard Carson, Chairman
Clarke County Soil Conservation District

RC:lwm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 10, 1983

Edwin G. Ratashak, Jr.
R.R. 2
Osceola, Iowa 50213

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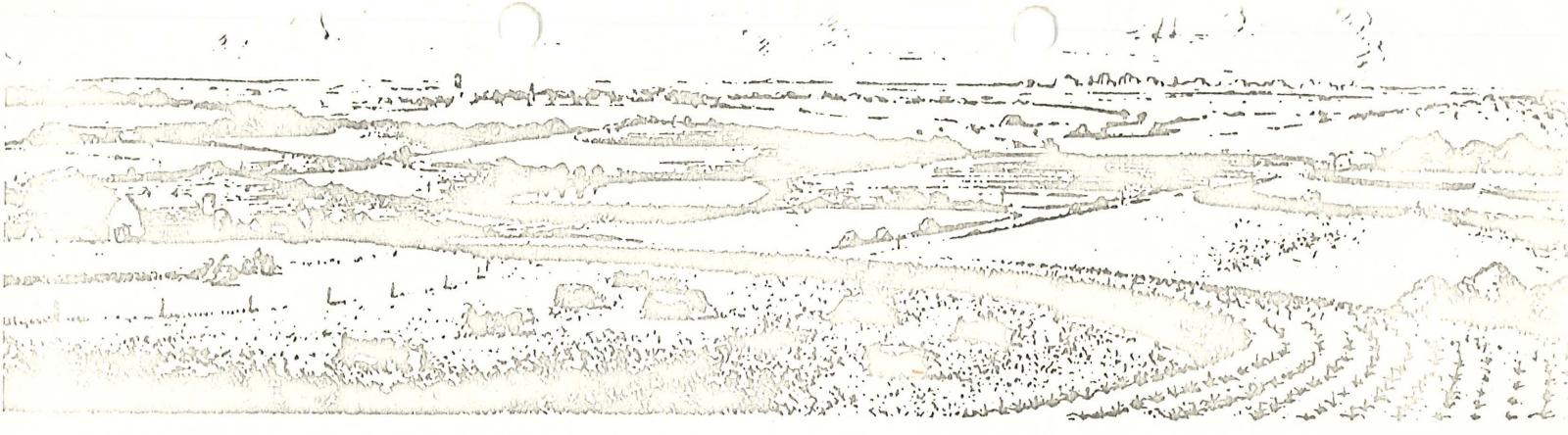
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Richard Carson, Chairman
Clarke County Soil Conservation District

RC:lwmm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

January 10, 1983

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John Klein
January 10, 1983
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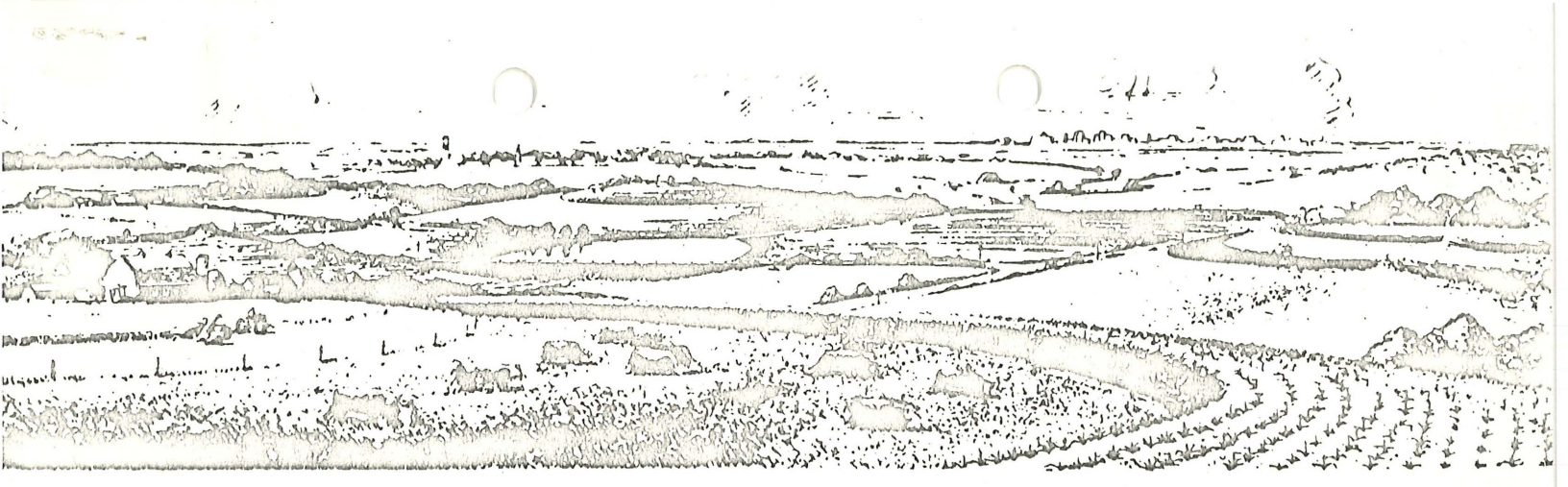
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Sincerely,



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Clarke County Soil Conservation District

RC:lwm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

May 22, 1981

Mr. Adrian Fuller
503 S. Jackson Street
Osceola, Iowa 50213

Dear Adrian:

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Adrian Fuller

May 22, 1981

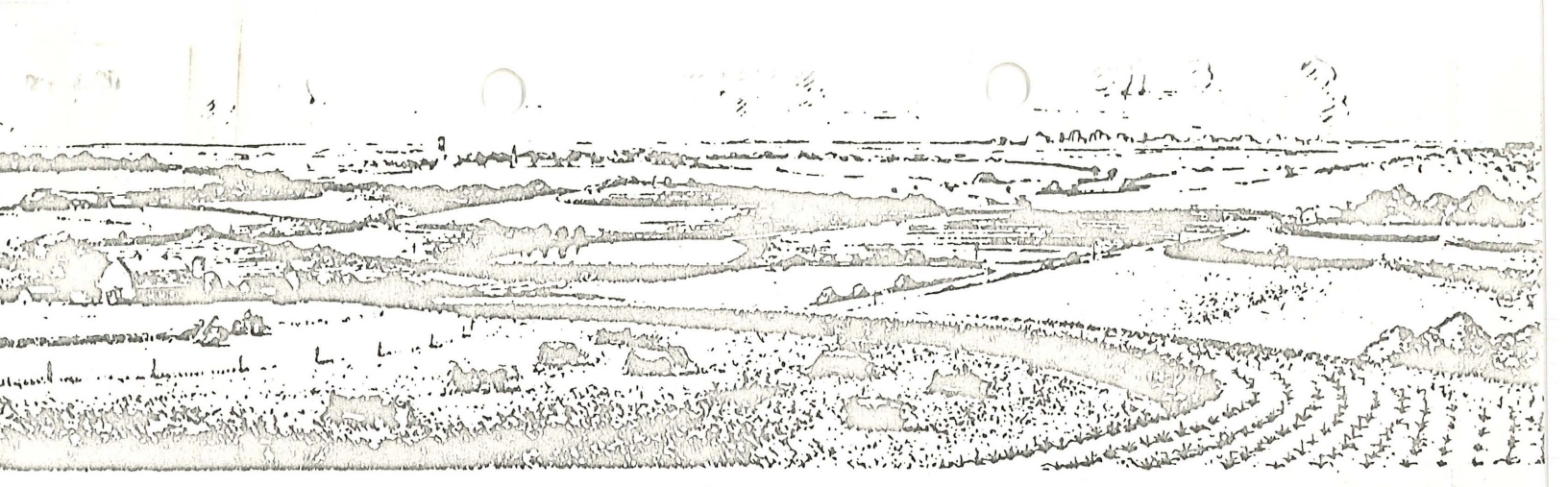
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Sincerely,

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Richard Carson, Chairman
Clarke County Soil Conservation District



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

May 22, 1981

Mr. E. Lloyd Morgan
R.R. 3
Osceola, Iowa 50213

Dear Lloyd:

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Richard Carson, Chairman

Clarke County Soil Conservation District



United States
Department of
Agriculture

Soil
Conservation
Service

820A N. Main Street
Osceola, IA 50213

Subject: PDM - Amendments - Contract No.
59-6114-1-672

Date: February 3, 1986

To: Arthur Bryant
Supervisory Contract Specialist
Soil Conservation Service
Des Moines, Iowa

In reviewing our records I discovered we do not have a copy of Amendment 6 showing the increase of funds in the amount of \$12,000. We would appreciate receiving a copy for our files.

Also, we would appreciate receiving documentation for the \$2,020.18 increase in funds which we discussed last week.

Thank you for your assistance on this project.

W. Keith Edwards
District Conservationist



The Soil Conservation Service
is an agency of the
Department of Agriculture

SCS-AS-2
10-79

JAN. 5 1983

D.S.C.

DEC 30 1982

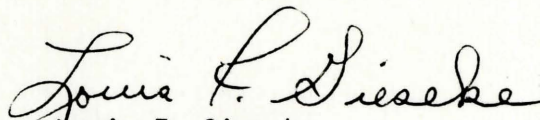
NOTICE OF HEARING ON AN APPLICATION
FOR A PERMIT TO WITHDRAW WATER
IN CLARKE COUNTY, IOWA

Notice is hereby given that there is now on file with the Iowa Natural Resources Council (INRC), an application for a permit to withdraw water as herein described.

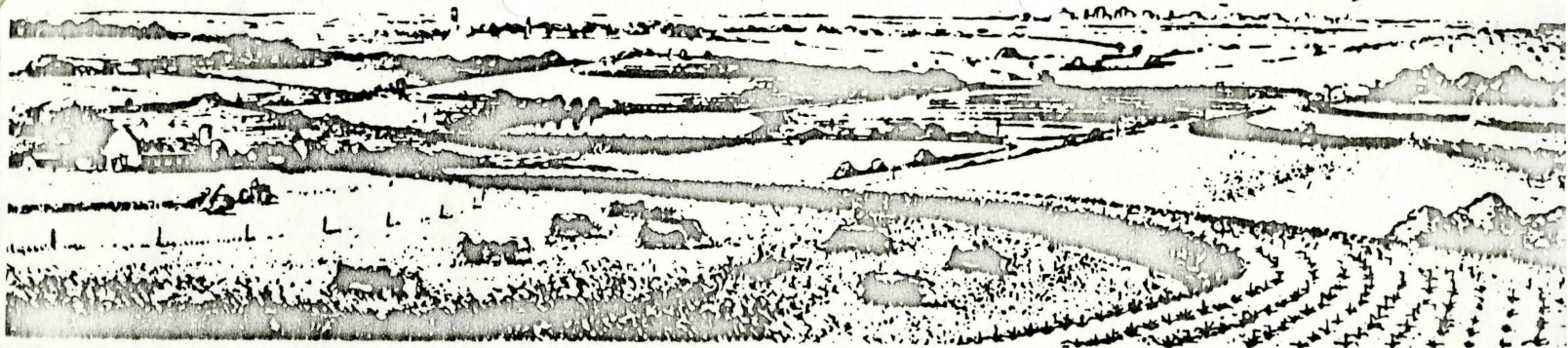
THE CITY OF OSCEOLA, IOWA (Log #12,603) requests modification of Iowa Water Permit #142-R2 to authorize the storage of water in the maximum amount of 4195 acre-feet at a maximum rate of natural runoff from 6,350 acres throughout each year for recreational and municipal use in the city reservoir on its land in the W 1/2 of Section 13, the S 1/2 of Section 14, the E 1/2 of Section 15, the SE 1/4 of the SE 1/4 of Section 10, the NE 1/4 of Section 23, and the NW 1/4 of the NW 1/4 of Section 24, all in T72N, R26W, Clarke County, Iowa, and to withdraw water from said reservoir in the maximum quantity of 370,000,000 gallons per year at a maximum rate of 1800 gallons per minute throughout each year for municipal use within and without its corporate limits. Permit #142-R2 presently authorizes this storage of water in the maximum amount of 1408 acre-feet and this withdrawal of water in the maximum amount of 210,000,000 gallons per year. No other changes are requested.

Notice is further given that pursuant to 455A.18 and 455A.19, Code of Iowa, a public hearing has been scheduled for 10:00 A.M. on January 24, 1983, at the Office of the Water Commissioner, Iowa Natural Resources Council, Wallace State Office Building, Des Moines, Iowa, 50319. At the hearing, the Water Commissioner or his Deputy will take evidence either in support of or in opposition to the granting of the permit requested. The criteria for approval pertinent to the application are set forth in 455A.2 and 455A.20 through 455A.24, Code of Iowa, and Chapter 3 of the INRC administrative rules (Agency Number 580, Iowa Administrative Code).

Any person desiring to appear at the hearing herein announced must file a statement of intent to appear at the hearing and may request that the hearing site be transferred to Clarke County. Statements of intent to appear at the hearing and requests for transfer of the hearing site must be submitted in writing to the Office of the Water Commissioner on or before January 17, 1983, and must specify the application of interest by applicant's name and log number.


Louis F. Gieseke
Water Commissioner

12/22/82



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

November 18, 1982

Mr. Roger Hirschman
Contract Specialist
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

Dear Mr. Hirschman:

The sponsors of the West Lake Water Quality RC&D Project, Contract Number 59-6114-1-672, would like to modify the project agreement. We would like to amend the agreement by adding Marquis Farms, Inc., Plan #1744 and Gerald Davis, Plan #1288, to the list of cooperators in Section A.

If you need further information, contact our district office.

Sincerely,

Richard Carson, Chairman
Clarke Co. Soil Conservation
District Commissioners

RC/lwm



United States
Department of
Agriculture

Soil
Conservation
Service

AUG. 26 1982

K. Edwards

[Handwritten signature]

August 23, 1982

Mr. William J. Brune
State Conservationist
Soil Conservation Service
Des Moines, Iowa

Dear Mr. Brune:

In order to help relieve some of the serious flood damage to roads in the Chariton Valley RC&D Area, I am making the following recommendations:

1. Sixty thousand dollars of unobligated funds be taken from the West Lake (Osceola) project agreement.
2. Approximately \$6,900 of unobligated funds previously in the Lake LaShane project agreement be redirected.
3. This total of \$66,900 be redirected and project agreements be developed for the following measures:
 - a. MOFF I - \$15,000 Chariton Valley
(1) Lloyd Clark
(2) Huber
 - b. WOFF I - \$ 9,500 Chariton Valley
(1) George Schreck
 - c. LOFF I - \$24,000 Chariton Valley
(1) John Chase
(2) Richard McDonald
 - d. ROFF - \$16,500 Southern Iowa
(1) Hazel Anderson

This could be a new project agreement or an addition to the existing project agreement

The recommended sites are designed and ready for construction. Sponsors will be requesting funds for these sites plus additional sites in the near future.

Because of limited funds available, I feel the recommended sites will be most beneficial at this time. In addition to the structures requested to be included in the above project agreements, we have designs completed for the following:

Do-It-To-It		Have-At-It
\$10,000		\$ 7,800
10,400		10,300
8,700		13,250
11,550		
<u>\$40,650</u>		<u>\$31,350</u>
	LOFF	
	\$10,000	
	13,250	
	<u>\$23,250</u>	



The Soil Conservation Service
is an agency of the
Department of Agriculture

As funds become available, I request funds be added to the project agreements. This could be done in increments with one site at a time or in multiples. Project agreements will also need to be prepared to cover structures in measure plans: Do-It-To-It and Have-At-It.

We will review all project agreements for critical area treatment measures in September to see if there are other unobligated funds that could better be utilized.

I would also like about \$25,000 of Fiscal Year 1983 RC&D funds to be reinstated into the West Lake Measure.

A handwritten signature in cursive script, reading "Erwin O. Aust".

Erwin O. Aust
Area Conservationist

cc: C. Cobb
R. Hirschman
E. Aust

Set July 7 Hearing for West Lake Project

A public hearing for the purpose of issuing general obligation water bonds for raising the West Lake dam was set for Tuesday, July 7 at 7 p.m. This action was taken at the Tuesday night, June 16 meeting of the Mayor and City Council held in the Senior Citizen Center.

Discussion had been held at the previous meeting concerning the report given by Lynn Sickels of Midstates Engineering in which raising of the existing dam by 12 feet was recommended. West Lake, which serves as a reservoir for the Osceola water system had been below a level considered desirable. With the projected usage of water expected to grow, members of the Osceola Water Board had made plans to have the dam raised and in turn provide additional storage capacity.

A grant of \$492,000 has been offered and accepted as a partial funding for the project. An additional \$378,000 request for funding from EDA was disapproved and \$400,000 in water revenue bonds was approved at a previous meeting.

It had been decided to hold a special election on July 14 for the

purpose of asking the voters of Osceola to approve issuing general obligation bonds in the amount of \$400,000. This would bring the amount to \$1,125,000 or approximately the amount engineers estimate will cover the cost of acquiring land and raising the dam. When completed, West Lake will have over three times the amount of storage capacity it presently has.

Following a meeting with City Attorney Richard Murphy and the bonding attorney, it was determined that an election was not necessary since water was an essential commodity. Therefore, a hearing open to the public will suffice and the Council has the power to proceed with the issuance of general obligation bonds to meet the needs.

In other action, Council members heard Robert Buss of Hall Engineering report on the status of the sewer construction project.

Don Wubbena, representing the Osceola State Bank and Trust Company, and Earl Curtis, representing the Clarke County State Bank, visited with the Mayor and City Council pertinent to sharing city receipts

and accounts in their respective institutions. Following a lengthy discussion, Councilman Charles Marvin was appointed to work with City Clerk and representatives of the banks to have a proposal on the city's accounts ready for the next meeting.

Fire Chief Al Ogbourne requested that the tree container in front of the fire hall be moved to permit the new ladder truck sufficient room to turn and go north on Fillmore Street. This request was approved with the container to be moved onto the parking across from Iowa Southern Utilities.

Approval was also given to have the Iowa Department of Transportation continue to maintain that portion of highways 34 and 69 that pass through the city limits. A DOT proposal to pay the city for maintenance of the highways was rejected and an agreement was approved for a five-year maintenance program for the two highways.

A report concerning the appraisal work accomplished by Hennessey Appraisal and Counseling Service was made and

approval given for the initial payment for the work. Councilman Clark was appointed to work with Councilman Marvin and the engineer concerning appraisals.

Discussion was then held concerning water runoff along highway 69 in the vicinity of Gene Wilkins' property. Council members felt they had no solution to the problem.

June 17, 1982

Mr. Roger Hirschman
Contract Specialist
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

Dear Mr. Hirschman:

The sponsors of the West Lake Water Quality RC&D Project, Contract Number 59-6114-1-672, would like to modify the project agreement. We would like to amend the agreement by adding Litchfield Realty, Plan #1517, to the list of cooperators in Section A.

If you need further information, contact our district office.

Sincerely,

Richard Carson, Chairman
Clarke Co. Soil Conservation
District Commissioners

820A N. Main Street
Osceola, Iowa
50213

Data on West Lake

June 16, 1981

Water Plant
R.R. 2
Osceola, Iowa 50213

I would appreciate receiving any data you have available regarding lake levels and time intervals during the recent storm. We are planning to use the information to try to compute run-off.

Thank you for your assistance.

W. Keith Edwards
District Conservationist

820A North Main Street
Osceola, Iowa
50213

May 28, 1981

AS - Agreements - West Lake

Donald Ummel
State Administrative Officer
SCS, Des Moines, Iowa

Attached are three copies of Project Agreement No. 59-6114-0-672
with signatures of the sponsors.

In your letter dated April 21, the sample letters to be used by the
District for appointing the Authorized Representative and Alternate
were not enclosed. Would you send us a list of their duties?

At their meeting on May 21, the Commissioners appointed Adrian T.
Fuller, 503 S. Jackson Street, Osceola, as the Authorized Representative
and E. Lloyd Morgan, R.R. 3, Osceola, as the Alternate.

W. Keith Edwards
District Conservationist

Enclosures
cc: Erwin O. Aust

210 Walnut
693 Federal Building
Des Moines, IA 50309

APR 22 1981

(Last page
on top copy
missing)

AS - Agreements - West Lake

April 21, 1981

Erwin Aust, Area Conservationist
SCS, Shenandoah, Iowa

Along with a copy of this letter, we are sending copies of Project Agreement No. 59-6114-0-672 directly to Keith Edwards, District Conservationist at Osceola, Iowa. We are also sending sample letters that may be used by the District for appointing the Authorized Representative and alternate.

Please secure the necessary signatures and return all copies of the Project Agreement to this office for execution and also one copy of each appointment letter.

Donald K. Ummel
State Administrative Officer

Encl.

cc: Keith Edwards, Osceola w/attachments

APR. 17 1981

693 Federal Building
210 Walnut Street
Des Moines, Iowa 50309

April 15, 1981

Fred J. Wood
Chairman
Board of Waterworks Trustees
City of Osceola
Osceola, Iowa 50213

Richard Carson
Chairman
Clarke County Soil Conservation District
820 A North Main Street
Osceola, Iowa 50213

Gentlemen:

The West Lake Measure Plan #19-6002-039-014 has been approved for installation. Construction of items included in the plan is dependent upon availability of both RC&D and local funds.

A copy of the measure plan is attached.

Sincerely,

William J. Brune
State Conservationist

Attachment

cc: E. Aust, Area Conservationist, SCS, Shenandoah w/conformed attach.
W: Keith Edwards, District Conservationist, SCS, Osceola w/conformed attach.
Jack Langford, Acting RC&D Coordinator, SCS, Creston w/conformed copy



United States
Department of
Agriculture

Soil
Conservation
Service

820A North Main Street
Osceola, Iowa
50213

SUBJECT: PROJ DEV MAINT - RC&D, Southern Iowa Area,
West Lake Measure

DATE: April 9, 1981

TO: Charles R. Cobb
Assistant State Conservationist
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

We request RC&D funds for West Lake Water Quality Management, RC&D
Measure Plan 19-6002-039-014.

Total Planned Construction - \$144,000.00
Total RC&D Funds Requested - \$108,000.00

I have contacted the following individuals which have expressed interest
in participating in the project activities in FY 81.

Robert Glasco	Non-Cooperator
R. J. Kirkpatrick	Plan #1513
James Webb	Plan #1274
John Webb	Plan #1334
Darrell Flaherty	Plan #1536
Paul Audelhelm	Non-Cooperator
Marlow Peterson	Plan #1658
Merle Patterson	Non-Cooperator
Hubert Price	Plan #1553
Merrill Dorland	Plan #1276
Bill Kelso	Plan #1472
Kenneth Kilkinney	Plan #1655

If you need additional information, contact me.

W. Keith Edwards
District Conservationist

cc: Donald K. Ummel
Roger V. Hirschman
Joseph F. Ausan
Erwin O. Aust
Jack D. Langford





United States
Department of
Agriculture

Soil
Conservation
Service

820A North Main Street
Osceola, Iowa
50213

APR. 1 0 1981

APR. 1 4 1981

SUBJECT: PROJ DEV MAINT - RC&D, Southern Iowa Area,
West Lake Measure

DATE: April 9, 1981

TO: Charles R. Cobb *E.O. Aust*
Assistant State Conservationist
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

*Attn: Ch Cobb
Assistant*

or send a cc direct to Ch

We request RC&D funds for West Lake Water Quality Management, RC&D Measure Plan 19-6002-039-014.

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Merle Patterson	Non-Cooperator
Hubert Price	Plan #1553
Merrill Dorland	Plan #1276
Bill Kelso	Plan #1472
Kenneth Kilkinney	Plan #1655

If you need additional information, contact me.

To
W. Keith Edwards
W. Keith Edwards
District Conservationist

cc: Donald K. Ummel *Attn: Hirschman*
~~Roger V. Hirschman~~
~~Joseph F. Ausen~~
Erwin O. Aust
Jack D. Langford

4/13/81

*Generally send info
to me - you can send
cy's to S.O. direct attn. Abbott*

*If above is for a project
agreement you need to indicate
the Dollars you want for terraces
or structures etc. See cy attached*

Looks like your in good shape.

May want to get Cooperators to sign

*up - then your ready and SCD
can approve as soon as Proj agreement is signed.*

*Erwin O. Aust
AC*

APR 21 1980

April 18, 1980

William J. Brune, State Conservationist
Soil Conservation Service
Room 693 Federal Building
Des Moines, IA 50309

Dear Mr. Brune:

The following landowners have indicated to us that they will sign Project Agreements with Decatur Soil Conservation District on Lake LaShane C.A.T. #47

	Cooperator's Number	Total Cost
Wayne Reynolds	1037	\$15,050
Paul Griffith	943	21,050
Donald J. Gillaspay	120	10,050
Willard Moon	1682	<u>15,150</u>
		\$61,300

Following is a list of the work to be accomplished:

Broadbase terraces	5,800 ft
Steep backslope terraces	9,400 ft
Water & sediment basin steep back slope	2,900 ft
4 inch drain tile	1,400 ft
5 inch drain tile	3,400 ft
6 inch drain tile	2,650 ft
8 inch drain tile	1,400 ft
10 inch drain tile	500 ft
12 inch drain tile	500 ft
Intakes	21 (No)
6 inch outlet	5 (No)
8 inch outlet	5 (No)
10 inch outlet	1 (No)
15 inch outlet	1 (No)
Seeding	4 ac

Check average cost
Schedule approved for
So La R.C. & D on terraces
& determine Rea-D money
you can get.

We are requesting that through this commitment a Project Agreement can be written between the USDA-SCS, Decatur Soil Conservation District and the Lamoni Utilities Board. The total cost of work to be accomplished is \$61,300. The Decatur Soil Conservation District respectfully requests \$45,975 for Lake LaShane C.A.T. #47.

Sincerely,

John W. Skillings, Chairman

cc: Rollin Swank
Erwin Aust

As soon as SCD gets
funds they can sign the
Cooperator agreements approving
cost sharing and coops can
proceed with the const.
Prime

MAY 18 1979

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

800 South Vine Street, Creston, Iowa 50801

SUBJECT: RC&D - Lake LaShane, Lake Binder and Lake
of Three Fires

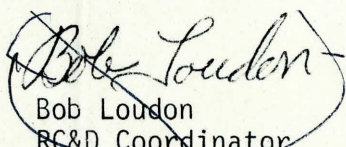
DATE: May 17, 1979

TO: Erwin O. Aust
Area Conservationist
Soil Conservation Service
Shenandoah, Iowa

Ron Snyder has indicated he can sign two project agreements in Lake LaShane for approximately \$5,000 per agreement for a total of \$10,000 of RC&D funds.

Ken Leiting has one project agreement for \$10,000 that can be signed in the near future.

It appears \$20,000 RC&D funds is all we can commit at this time; however, as existing project agreements are completed, there will be a need for RC&D dollars to complete the ~~three~~ ² above listed RC&D measure plans.


Bob Loudon
RC&D Coordinator

cc: R. Swank
R. Snyder
K. Leiting

Normally requests are from D.C.

820A North Main Street
Osceola, Iowa
50213

PROJ DEV MAINT - West Lake Water Quality
Management

April 8, 1981

William J. Brune
State Conservationist
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

I have obtained the signatures needed on the West Lake Water Quality Management RC&D Measure Plan. Enclosed are seven copies of the plan for your signature.

W. Keith Edwards
District Conservationist

Enclosures

April 8, 1981

William J. Brune
State Conservationist
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

Dear Mr. Brune:

We are forwarding seven copies of the West Lake Water Quality Management, RC&D Measure Plan 19-6002-039-014, Clarke County, Iowa, Southern Iowa Resource Conservation and Development Area, for your signature.

We have some farmers interested in beginning work on conservation practices this fall if funding is available.

Sincerely,

Richard Carson, Chairman
Clarke County Soil Conservation
District Commissioners

Enclosure

U.S. DEPARTMENT OF AGRICULTURE

DATE

MAR. 4 1981

REFERENCE SLIP

TO

Keith Edwards, DC

SES

OSCEOLA

☐ ACTION

☐ NOTE AND RETURN

☐ APPROVAL

☐ PER PHONE CALL

☐ AS REQUESTED

☐ RECOMMENDATION

☐ FOR COMMENT

☐ REPLY FOR SIGNATURE OF

☒ FOR INFORMATION

☐ RETURNED

☐ INITIALS

☐ SEE ME

☐ NOTE AND FILE

☐ YOUR SIGNATURE

REMARKS

FROM

Joe Ainsworth

MINUTES OF ENVIRONMENTAL EVALUATION: West Lake Measure
Southern Iowa RC&D Area

MEASURE PURPOSE: Water Quality Improvement

LOCAL SPONSORS: Osceola Water Board
Clarke County Soil Conservation District

DATE: February 17, 1981
PLACE: SCS Office, Osceola, Iowa

Attendance List:

<u>Name</u>	<u>Representing</u>
Adrian Fuller	Clarke SCD Commissioner
Phillip Henrichs	Clarke SCD Commissioner
Richard Carson	Clarke SCD Commissioner
Con Smith	Osceola Water Board
Bayard Shadley	Osceola Water Board
Clayton Scott	Clarke County Development Corporation
John Klein	Clarke County Conservation Board
Melvin Moe	Iowa Conservation Commission
Ubbo Agena	Iowa Department of Environmental Quality
Bill McGill	Iowa Department of Soil Conservation
David Effert	Midcrest Extension Office
Stanley Murdock	Midcrest Extension Office
Keith Edwards	Soil Conservation Service (SCS)
Dale Chidester	SCS
Jack Langford	SCS
Lyle Asell	SCS
Roger Link	SCS
Duane Miller	SCS

District Conservationist Keith Edwards opened the meeting at 10:15 a.m. with introductions.

Roger Link, Soil Conservationist, discussed environmental evaluation procedures and the purpose of scoping as they relate to the meeting.

Edwards reviewed the history of West Lake and its present use as a source of raw water supply for the Osceola water plant.

Sediment in West Lake is the major water quality problem. Cropland above West Lake is eroding at a rate of 10-26 ton/acre/year. The average rate is 12 tons/acre/year. The goal of the sponsors is to reduce rates to be within tolerable limits and therefore reduce sediment delivery to West Lake.

Best Management Practices (BMP) considered for the area were reviewed. A map of the West Lake area was passed out and reviewed. Link discussed water quality problems that are treated. Groundwater is not a good alternative for

water supply because of depth, low yield, and poor quality.

Duane Miller, Economist, discussed results of the economic evaluation. The benefit-cost ratio is 1.7:1.0 for the selected alternative.

Lyle Asell, Biologist, described the role of the SCS archeologist and biologist in environmental evaluation. He also mentioned the inputs of personnel from the Iowa Conservation Commission and the U.S. Fish and Wildlife Service.

Jack Langford, Engineer, reviewed the duties of the RC&D Coordinator and the engineer.

Edwards asked for input from others. Completed environmental evaluation checklists were called for. Checklists received prior to the meeting were routed to the group.

Water board members Shadley and Smith discussed water usage from West Lake. They also discussed the proposal to raise the dam 12 feet and the water level by 8 feet. The water board has hired a private consultant to study this proposal which they would fund with money from EDA or other federal funds.

Ubbo Agena asked if the impact of land treatment measures on water yield was being studied. The Water Board's consultant will study this issue according to Langford.

John Klein asked how much RC&D money would be spent on private land and how long the construction period would be. Edwards replied that a 3-year construction period is anticipated and the majority of funds would be spent on BMP on private land. The city owns 450 acres in the West Lake area and would have to purchase more land if the dam and pool are raised. Several grade stabilization structures are proposed on city-owned land to reduce sediment yield from gully erosion in small West Lake tributaries.

Agena asked "What is the status of RC&D funds?" Asell replied that the program currently has a good level of funding but that funding for West Lake is dependent on future appropriations. Edwards added that if RC&D funds are not available after planning is completed the local sponsors would seek an alternate source of funding.

The group proceeded to the field tour as there was no further discussion. Twelve persons in two vehicles toured the watershed with stops at the West Lake Dam and at a proposed road structure on the south side of the lake. Sedimentation was easily noticed due to the low level of the lake. The need for BMPs was noted as there was no snow cover.

The group stopped for lunch and they held a scoping meeting. The following assignments were made prior to adjourning at 1:30:

<u>Item</u>	<u>Studied by Whom</u>
Land Use	Edwards
Land Treatment	Edwards and Miller
Agricultural Production	Miller
Land Treatment Analysis	Edwards
Gully and Other Erosion	Edwards and Mitchem
Floodplains/Flooding	Not an item of concern
Water Supply Needs <u>and</u> Water Quantity (Impact of land treatment on water yield) Review Water Consultants Study	Link and Langford
Water Quality	Link
Economic and Social	Miller
Wildlife Habitat	Asell, Moe, Klein
Wetlands	Asell, Moe, Klein
Endangered Species	Asell, Moe, Klein
Fish Habitat	Asell, Moe, Klein
Cultural Resources	Thompson
Visual Quality	Not an item of concern
Other Items	None identified.

Roger Link, Recorder

ENVIRONMENTAL EVALUATION MEETING - WEST LAKE RC&D
Osceola, Iowa
February 17, 1981 - 10:00 a.m.

AGENDA

Sign Attendance Roll
Introductions by Individuals
Opening Remarks

Edwards

EE Procedures
Scoping

Link

History, Problems,
Needs, Sponsors

Edwards

Water Quality

Link

Economists Role
Archeology Role
Biologists Role
Engineer, Coordinator's Role

Miller
Thompson
Asell
Langford

Input from others present

Field Tour

Scoping Discussion

###

2-17-81

West Lake Environmental Evaluation

Name	Representing	Town
Adrian Fuller	Clarke Soil Dist	Osceola
Samuel M. Spiller	Great Water Board	Osceola
Con Smith	Osceola Water Board	Osceola
Deane R. Miller	SCS	D.M.
Keith Edwards	SCS	Osceola
Roger J. Jink	SCS	Des Moines
Melvin Moore	ICC	Mt. Airy
Bill McMill	DSC	Des Moines
Walter Agnew	DEQ	Des Moines
Clayton Scott	Clarke Co. Dev. Corp.	Osceola
David Effert	Midcrest Extension Office	Creston
Stanley Murdock	" "	"
Walter H. Hildebrand	" "	Osceola
Jack Langford	SCS	Creston
Fyle W. Hall	SCS	Des Moines
John Klein	Clarke Co. Conservation Bd	Osceola
Phillip Hennrichs	com	Osceola
Richard Carson	com	Woodburn

EST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Scoping

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Edwards Land Use						
Edwards Land Treatment (Present/Projected) ..						
Miller Agricultural Production						
Edwards Land Treatment Analysis (Ia-5).....						
Stam Gully and Other Erosion.....						
Miller Floodplains/Flooding.....				X		
City Water Quantity.....						Enough water to support raising dam?
Link Water Quality.....						
City Water Supply Needs.....						
Miller Economic.....						
Miller Social.....						
Asell Wildlife Habitat.....						
Wetlands.....				X		
Threatened & Endangered Species.....						
Fish Habitat.....						
Klein Recreation.....						
Thompson Cultural Resources.....						
Visual Quality.....				X		
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: _____
 Title: _____
 Representing: _____
 Address: _____
 Date: _____

REFERENCE SLIP

TO

Keith Edwards

☐ ACTION☐ NOTE AND RETURN☐ APPROVAL☐ PER PHONE CALL☐ AS REQUESTED☐ RECOMMENDATION☐ FOR COMMENT☐ REPLY FOR SIGNATURE OF☒ FOR INFORMATION☐ RETURNED☐ INITIALS☐ SEE ME☐ NOTE AND FILE☐ YOUR SIGNATURE

REMARKS

FROM

Roger Link

CLARKE COUNTY CONSERVATION BOARD

Court House

Osceola, Iowa 50213



2/2/81

Joe Ausan
S.C.S.
Federal Bldg Room 693
Des Moines, Iowa 50309

Dear Joe,

Enclosed is my environmental evaluation of concern for West Lake in Clarke County. I feel that this lake has been managed on a short-term basis for immediate water quantity and without regard for the other factors on your list. I hope your measure plan will implement a comprehensive approach for the quality of West Lake. I will plan to attend on Feb. 17 and assist you in anyway possible.

I would like you to send notice of this meeting and environmental evaluations to the following resource specialists if you have not done so thus far.

CHAPTER 111A CODE OF IOWA

111A. 1 Purposes. The purposes of this chapter are to create a county conservation board and to authorize counties to acquire, develop, maintain, and make available to the inhabitants of the county, public museums, parks, preserves, parkways, playgrounds, recreational centers, county forests, wildlife and other conservation areas, and to promote and preserve the health and general welfare of the people, to encourage the orderly development and conservation of natural resources, and to cultivate good citizenship by providing adequate programs of public recreation.

over —

Please send a copy to :

①

Jim Fincham - Conservation Officer
RR3 Box 758
Leon, Iowa 50144

②

Mike McGhee - Fisheries Biologist
State Fish Hatchery
Mt. Ayr, Iowa 50854

③

Melvin Moe - Wildlife Biologist
S.C.S. office Building
RR3 Mt. Ayr, Iowa 50854

Mailed in
1st mailing of 8

④

Alan Teel - Extension Agent
Clarke County Extension Office
Osceola, Iowa 50213

⑤

Steve Swinonos - District Forester
Box 2
Creston, Iowa 50801

I am sure their input would be an asset to
your plan. Further, they like to be notified, as
I do, in the conservation operations of our respective
districts.

Thank you,

John Klein

JOHN KLEIN
Executive Officer
Clarke County Conservation Board

WEST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use			X			
Land Treatment (Present/Projected) ..			X			
Agricultural Production			X			
Land Treatment Analysis (Ia-5).....	X					
Gully and Other Erosion.....			X			
Floodplains/Flooding.....		X				
Water Quantity.....			X			
Water Quality.....			X			
Water Supply Needs.....			X			
Economic.....			X			
Social.....			X			
Wildlife Habitat.....	X					
Wetlands.....	X					
Threatened & Endangered Species.....	X					
Fish Habitat.....	X					
Recreation.....	X					
Cultural Resources.....			X			
Visual Quality.....		X				
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: John Klein

Title: Executive officer

Representing: Clarke Co. Conservation Board

Address: Courthouse, Osceola, Iowa 50213

Date: 1/30/81

WEST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use		X				
Land Treatment (Present/Projected) ..	X					
Agricultural Production		X				
Land Treatment Analysis (Ia-5).....			X			
Gully and Other Erosion.....		X				
Floodplains/Flooding.....			X			
Water Quantity.....	X					
Water Quality.....	X					
Water Supply Needs.....	X					
Economic.....			X			
Social.....				X		
Wildlife Habitat.....			X			
Wetlands.....				X		
Threatened & Endangered Species.....					X	
Fish Habitat.....				X		
Recreation.....			X			
Cultural Resources.....					X	
Visual Quality.....					X	
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name:

Adrian T. Fuller

Title:

Owner

Representing:

Clatsop Soil District

Address:

503 S Jackson Creek Dr

Date:

2-6-81



United States Department of the Interior
HERITAGE CONSERVATION AND RECREATION SERVICE
MID-CONTINENT REGION
POST OFFICE BOX 25387
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

IN REPLY REFER TO:

101-03 3500-A

FEB 6 1981

Mr. Joe Ausan
Soil Conservation Service
693 Federal Building
Des Moines, Iowa 50309

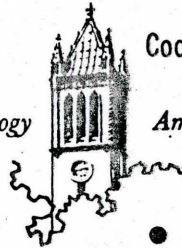
Dear Mr. Ausan:

Thank you for your invitation to attend the public meeting on the West Lake Resource Conservation and Development Area. We will be unable to attend due to the recent ban of federal travel. However, we would be happy to assist the Soil Conservation Service with any questions or problems that concern cultural resources in this project.

Sincerely yours,

Jack R Rudy
Chief, Interagency Archeological
Services Division

Iowa State University of Science and Technology



Cooperative Extension Service

Ames, Iowa 50011

Agronomy
117 Agronomy Bldg.
Telephone 515-294-1923

W. J. Brune
cc
Reed J. Miller
use

February 2, 1981

William J. Brune
Soil Conservation Service
693 Federal Building
210 Walnut
Des Moines, Iowa 50309

Dear Bill:

Thank you for informing us of the public meeting in Osceola on February 17, 1981, regarding the West Lake project. Although I will be unable to participate, I am passing this information on to Alan Teel, Clarke County Extension Director and to appropriate specialists in our Creston area office.

As project plans are developed, I trust you will keep us posted.

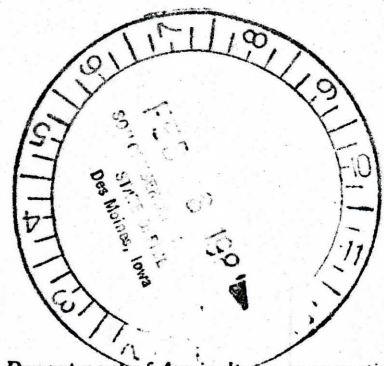
Sincerely yours,

Min Amemiya
Extension Agronomist

MA/1k

... AND JUSTICE FOR ALL

Programs and activities of Cooperative Extension Service are available to all potential clientele without regard to race, color, sex or national origin. Anyone who feels discriminated against should send a complaint within 180 days to the Secretary of Agriculture, Washington, D.C. 20250





Keep you happy & golden for the future



Dear Friend:

LOOK TO EXTENSION whenever you want assistance on farm, home, or community problems. We hope you'll feel free to write or call us; or better still, stop in at the office.

Enclosed you will find material which we hope will be both helpful and informative to you.

Sincerely,

Alan W Teel

Alan W. Teel
County Extension Director

Pam Millang

Pam Millang
Extension Home Economist

kw

ST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use			✓			
Land Treatment (Present/Projected) ..			✓			
Agricultural Production		✓				
Land Treatment Analysis (1a-5).....			✓			
Gully and Other Erosion.....			✓			
Floodplains/Flooding.....			✓			
Water Quantity.....			✓			
Water Quality.....			✓			
Water Supply Needs.....			✓			
Economic.....			✓			
Social.....					✓	
Wildlife Habitat.....				✓		
Wetlands.....				✓		
Threatened & Endangered Species.....				✓		
Fish Habitat.....			✓			
Recreation.....			✓			
Cultural Resources.....					✓	
Visual Quality.....			✓			
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: Alan Teel
 Title: County Extension Director
 Representing: Clay Co. Extension + ISU
 Address: 113 N Main, OSCOLA
 Date: 3 Feb 81

WEST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use						
Land Treatment (Present/Projected) ..						
Agricultural Production						
Land Treatment Analysis (Ia-5).....						
Gully and Other Erosion.....						
Floodplains/Flooding.....						
Water Quantity.....						
Water Quality.....		+				you may need to consider subtle channel loss, particularly NO ₃ -N
Water Supply Needs.....						
Economic.....						
Social.....						
Wildlife Habitat.....						
Wetlands.....						
Threatened & Endangered Species.....						
Fish Habitat.....						
Recreation.....						
Cultural Resources.....						
Visual Quality.....						
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: Dr. James L. Baker
Title: Dept. of Agric. Engr.
Representing: Iowa State University
Ames, Iowa 50011
Address: _____
Date: 2/11/81

EST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use						
Land Treatment (Present/Projected) ..						
Agricultural Production						
Land Treatment Analysis (Ia-5).....						
Gully and Other Erosion.....						
Floodplains/Flooding.....		✓				
Water Quantity.....		✓				
Water Quality.....		✓				
Water Supply Needs.....		✓				
Economic.....						
Social.....						
Wildlife Habitat.....						
Wetlands.....						
Threatened & Endangered Species.....						
Fish Habitat.....						
Recreation.....						
Cultural Resources.....						
Visual Quality.....						
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.

2. Willing to furnish inputs from available data.

3. Have desire to attend meeting.

4. Not an item of concern.

5. Unable to participate.

Name: Donivan L. Gordon

Title: Chief, Water Resources Division

Representing: Iowa Geological Survey

Address: 123 N. Capitol, Iowa City

Date: February 2, 1981

52242

WEST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use			✓			
Land Treatment (Present/Projected) ..			✓			
Agricultural Production			✓			
Land Treatment Analysis (Ia-5).....			✓			
Gully and Other Erosion.....			✓			
Floodplains/Flooding.....			✓			
Water Quantity.....	✓					
Water Quality.....	✓					
Water Supply Needs.....	✓					
Economic.....	✓					
Social.....				✓		
Wildlife Habitat.....			✓			
Wetlands.....				✓		
Threatened & Endangered Species.....			✓			
Fish Habitat.....			✓			
Recreation.....	✓					
Cultural Resources.....			✓			
Visual Quality.....	✓					
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: Clayton P. Scott
 Title: Secretary
 Representing: Clarke Co. Development Corp.
 Address: P.O. Box 1, Osceola IA 5013
 Date: Feb 11, 1981

WEST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use						
Land Treatment (Present/Projected) ..						
Agricultural Production						
Land Treatment Analysis (Ia-5).....						
Gully and Other Erosion.....						
Floodplains/Flooding.....						
Water Quantity.....		✓				
Water Quality.....		✓	✓*			
Water Supply Needs.....		✓				
Economic.....			✓*			only as water quality may be factored into economics
Social.....						
Wildlife Habitat.....						
Wetlands.....						
Threatened & Endangered Species.....						
Fish Habitat.....						
Recreation.....						
Cultural Resources.....						
Visual Quality.....						
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: Ukbo Agena
 Title: _____
 Representing: Ia Dept Envir Quality
 Address: Wallace Bldg, Des Moines
 Date: Feb 17, 1981

* don't want special mtg called for this purpose - would attend mtg if one were held



United States
Department of
Agriculture

Soil
Conservation
Service

693 Federal Building
210 Walnut Street
Des Moines, Iowa 50309

Osceola F.O.

[Signature]

FEB. 6 1981

Subject: PROJ DEV MAINT - RC&D, Southern Iowa Area,
West Lake Measure

Date: January 29, 1981

To: Erwin O. Aust
Area Conservationist
Soil Conservation Service
Shenandoah, Iowa

The environmental evaluation for West Lake RC&D Measure planning area is being initiated as described in the attached letter of invitation.

Team members for the environmental evaluation will include:

Joe Ausan, Assistant Planning Staff Leader
David Beck, Biologist
Roger Link, Soil Conservationist
Duane Miller, Economist
Dean Thompson, Archeologist
Jack Langford, Acting Coordinator
Keith Edwards, District Conservationist

Contact Joe Ausan if you have questions.

William J. Brune
State Conservationist

Attachment

Cy - Invitation Letter w/attach.
and mailing list

cc: Jack Langford, Act. Coord, SCS, Creston w/attachs.
✓ Keith Edwards, D.C., SCS, Osceola w/attachs.



The Soil Conservation Service
is an agency of the
Department of Agriculture

SCS-AS-1
10-79



United States
Department of
Agriculture

Soil
Conservation
Service

693 Federal Building
210 Walnut Street
Des Moines, IA 50309

January 28, 1981

Fred Wood
Chairman
Osceola Water Board
100 South Fillmore
Osceola, IA 50213

Dear Mr. Wood:

Subject: Public Meeting, February 17, 1981

We invite your participation in the environmental evaluation of the West Lake measure planning area within the Southern Iowa Resource Conservation and Development Area. West Lake is located approximately two miles northwest of Osceola in Clarke County, Iowa.

West Lake (162 acres) serves as a source of raw water for municipal and industrial water supply in and near Osceola. There are about 5,000 people including 100 rural users who depend on this water source.

Sediment and attached nutrients are major water quality problems. Sediment reduces the reservoir storage capacity and results in additional water treatment costs.

The objective of the proposed measure plan is to install best management practices to reduce sediment delivery to West Lake. West Lake Watershed includes 6,350 acres of which 79% is cropland, 13% pastureland, and 8% water, roads and farmsteads.

A public meeting will be held to obtain public comment and to explain planning procedures as set forth by the National Environmental Policy Act and other laws. The meeting will be held on February 17 at 10 a.m. at the Soil Conservation Service Office in Osceola located at 820A North Main Street.

Following the meeting SCS planners and other interested individuals will view the watershed in the field. Following the field review a scoping meeting will be held to determine which issues are to be studied.

Please review the enclosed environmental evaluation checklist. Indicate your interests by selecting the degree of involvement for each item. You may bring the checklist to the meeting on February 17 or mail it to Joe Ausan, Soil Conservation Service, 693 Federal Building, Des Moines, Iowa 50309, or call (515) 284-4135.

Sincerely,

William J. Brune
State Conservationist

Attachment



The Soil Conservation Service
is an agency of the
Department of Agriculture

SCS-AS-1
10-79

EST LAKE RC&D MEASURE PLAN
ENVIRONMENTAL EVALUATION

Item of Evaluation	Degree of Involvement					Remarks
	1	2	3	4	5	
Land Use						
Land Treatment (Present/Projected) ..						
Agricultural Production						
Land Treatment Analysis (Ia-5).....						
Gully and Other Erosion.....						
Floodplains/Flooding.....						
Water Quantity.....						
Water Quality.....						
Water Supply Needs.....						
Economic.....						
Social.....						
Wildlife Habitat.....						
Wetlands.....						
Threatened & Endangered Species.....						
Fish Habitat.....						
Recreation.....						
Cultural Resources.....						
Visual Quality.....						
Other						

Degree of Involvement Code

1. Desire to be involved in gathering data.
2. Willing to furnish inputs from available data.
3. Have desire to attend meeting.
4. Not an item of concern.
5. Unable to participate.

Name: _____
 Title: _____
 Representing: _____
 Address: _____
 Date: _____

Director
Northeastern Area, S&PF
Forest Service, USDA
370 Reed Road
Broomall, Pennsylvania 19008

Donald K. Leifeste
U.S. Geological Survey
Water Resources Division
P.O. Box 1230
Iowa City, Iowa 52240

Forest Service, USDA
Northeastern Area S&PF Field Office
Room 303
Folwell Avenue
St. Paul, Minnesota 55108

Office of the District Engineer
Corps of Engineers, U.S. Army
Clock Tower Building
Rock Island, IL 61201

Director, Recreation, Range,
Wildlife & Landscape Management
U.S. Forest Service
633 W. Wisconsin Avenue
Milwaukee, Wisconsin 53203

Dr. Kathleen Q. Camin
Regional Administrator
Attn: Ed Vest
U.S. Environmental Protection Agency
324 E. 11th Street
Kansas City, Missouri 64106

Jack R. Rudy
Heritage Conservation and Recreation
Service
Interagency Archeological
Services-Denver
P.O. Box 25387
Denver Federal Center
Denver, Colorado 80225

Director, Office of Environmental Review
(Mail Code A-104)
Environmental Protection Agency
401 "M" Street SW
Washington, D.C. 20460

Tom A. Saunders, Area Manager
U.S. Fish and Wildlife Service
Rock Creek Office Building, Suite 10
2701 Rockcreek Parkway
North Kansas City, Missouri 64116

Robert F. Tyson, Director
Office for Planning and Programming
Attn: A. Thomas Wallace
Capitol Hill Annex Building
523 E. 12th Street
Des Moines, Iowa 50319

Branch of Environmental Coordination
Fish and Wildlife Service
U.S. Department of the Interior
Washington, D.C., 20240

Southern Iowa Regional Planning
Agency
215 North Elm Street
Creston, IA 50801

Kenneth Hatcher
State Executive Director
Agricultural Stabilization and
Conservation Service
937 Federal Building
Des Moines, Iowa 50309

Donald L. Koch
Director and State Geologist
Iowa Geological Survey
123 North Capitol
Iowa City, Iowa 52242

Richard E. Myers
State Director
Farmers Home Administration
873 Federal Building
Des Moines, Iowa 50309

Larry Vance
Director
Iowa Department of Soil Conservation
Wallace State Office Building
Des Moines, Iowa 50319

Director
Department of Transportation
Ames, Iowa 50010

Adrian Anderson
State Historic Preservation Officer
Division of Historic Preservation
Iowa State Historical Department
26 East Market Street
Iowa City, Iowa 52240

James R. Webb
Director
Iowa Natural Resources Council
Wallace State Office Building
Des Moines, Iowa 50319

Larry J. Wilson
Director
Iowa Conservation Commission
Wallace State Office Building
Des Moines, Iowa 50319

Robert Lounsberry
Secretary of Agriculture
State Capitol Building
Des Moines, Iowa 50319

Larry Crane
Director
Department of Environmental Quality
Wallace State Office Building
Des Moines, Iowa 50319

Dr. Duane Anderson
State Archeologist
East Lawn Building
Iowa City, Iowa 52242

Mr. Sherry R. Fisher, Chairman
Governors Committee on Conservation
of Outdoor Resources
209 S. Village Drive
2000 Grand Avenue
West Des Moines, Iowa 50265

Lee R. Kolmer
Dean
College of Agriculture
Iowa State University
Ames, Iowa 50011

Audubon Society
726 - 50th Street
Des Moines, Iowa 50312

Charles E. Donhowe
Agricultural Extension Service
Iowa State University
Ames, Iowa 50011

Richard Madson
North Midwest Representative
National Audubon Society
P.O. Box 1591
Jamestown, North Dakota 58401

Dr. Min Amemiya
117 Agronomy
Iowa State University
Ames, Iowa 50011

Bernard Clausen
Biology Department
University of Northern Iowa
Cedar Falls, Iowa 50613

Cozette Merritt
Director
Iowa Wildlife Federation
P.O. Box 151
Boone, Iowa 50036

League of Women Voters of Iowa
431 E. Locust
Des Moines, Iowa 50309

Lawrence Eilers, Chairman
Iowa Chapter Nature Conservancy
1626 Campus
Cedar Falls, Iowa 50613

James C. Davis
North Bear Chapter - TU
P.O. Box 36
Newton, IA 50208

Les Licklider
Executive Secretary
Izaak Walton League, Iowa Division
R.R. #1, Box 24
Polk City, IA 50226

Fred A. Priewert
Regional Director for Iowa
Ducks Unlimited
932 - 31st Street
West Des Moines, Iowa 50265

Sierra Club
115 SW 8th Street
Des Moines, Iowa 50309

Carl F. Schnoor
Iowa County Engineers Association
Boone County Courthouse
Boone, Iowa 50036

William H. Greiner
Executive Vice President
Soil Conservation Society of America
7515 NE Ankeny Road
Ankeny, Iowa 50021

Dale Nelson
Secretary - Treasurer
Iowa Farm Bureau
5400 University Avenue
West Des Moines, Iowa 50265

Iowa Farmers Union
6538 University
Des Moines, Iowa 50311

Charles McLaughlin
President
Iowa Association of Soil Conservation
District Commissioners
Route 2
Britt, IA 50423

Wildlife Society Iowa Chapter
Gary K. Swanson, President
Spirit Lake Fish Hatchery
P. O. Box 7722
Spirit Lake, Iowa 51360

Richard Steffen
President
Iowa National Farmers Organization
Dunkerton, Iowa 50626

Iowa Federation of Womens Clubs
3839 Merle Hay Road
Des Moines, Iowa 50310

Peter C. Peterson
Iowa Ornithologists Union
235 McClelland Blvd.
Davenport, Iowa 52803

Mayor
City of Osceola
City Hall
Osceola, IA 50213

Phillip Henrichs, Chairman
Clarke County Soil Conservation
District
820A North Main
Osceola, Iowa 50213

George Buesch
Chairman
Clarke County Development Corporation
108 E. Washington
Osceola, IA 50213

John Klein
Executive Director
Clarke County Conservation Board
Courthouse
Osceola, IA 50213

Richard Carson
Chairman
Clarke County Soil Conservation District
Route #1
Osceola, IA 50213

Fred Wood
Chairman
Osceola Water Board
100 South Fillmore
Osceola, IA 50213

820A North Main Street
Osceola, Iowa
50213

RC&D West Lake Measure Planning

February 6, 1981

E. O. Aust
Area Conservationist

March 11, 17, 1980

Met with landowners. Presented land use, soil loss, soil depletion, alternative planning considerations.

March 25

Ausan, Loudon, Edwards met. Reviewed previous application, May 1973, information put together by Ticknor and Loudon. Updated land use information based on inventory completed in December 1979 by field office staff. Prepared draft preliminary report.

April 23

Application for West Lake Water Quality Management forwarded to state office for review and comments.

May 7

Letter of Intent to state office.

May 8

Swank, Loudon, Duane Miller, Edwards toured watershed, lake and downstream area to determine if flood damage reduction would be significant. Determined not significant. West Lake water level 67" below capacity.

May 13

Ausan called -- District sent letter to landowners to inform of ground control survey crew 5-19-80.

August 4

Request from Duane Miller to provide WS-5 data. Chidester sent a copy of soil map for all acres in watershed covered which was also requested. Edwards followed up with phone call. Provided Duane with summary of land use by crop management, tillage and conservation practice. Edwards argued WS-5's not needed since structure sites were not identified and would need to be updated if structures were feasible before construction. WS-5's would be filed out before structures designed.

August 22

Received topographic maps from Dean Glen.

December 4

Mitchem called -- questioned soil loss figures with no WS-5's.

December 9

Edwards met with Mitchem, Ausan, Miller at state office to clarify Mitchem's questions. Mitchem argued structure sites needed to be identified and evaluated. Mitchem felt that debris basins would be cheaper and more effective.

Edwards countered that landowners in watershed were concerned with soil loss and depletion. Upland treatment using terraces and tillage was the alternative preferred. In addition large structures were out of question since landowners would not provide landrights. Edwards agreed to meet with Mitchem and Miller to look at watershed and potential structure sites.

January 13, 1981

Mitchem, Miller, Edwards, Robertson walked gullies on north side of lake. Toured remainder of watershed. Agreed that gully erosion was small contribution. Several small structure sites were determined feasible on small tributaries very near the point where they empty into lake. They are primarily located in the small amount of pasture land near the lake where terrain is rough. Agreed major contribution is sediment from sheet and rill erosion on cropland.

January 29

Ausan, Langford, Edwards met and reviewed Draft Measure Plan for submittal. Plan included economic justification.

Ausan reported need to go to Washington for approval to go average cost method. Langford, Edwards agreed project will be hard to handle with farmers as a formal contract.

W. Keith Edwards
District Conservationist

1213 Fifth Avenue
Shenandoah, IA 51601

AUG 6 1980

PROJ-DEV MAINT
RC&D-Southern Iowa,
West Lake Quality Water Mgmt., Clarke County, SCD

August 5, 1980

William J. Brune, State Conservationist, Des Moines, Iowa

Twelve copies of the West Lake Water Quality Management RC&D measure plan from the Southern Iowa RC&D project has been delivered to your office.

We have developed this plan in consultation with members of your staff and would like to have you proceed with the necessary reviews and give us concurrence to print the final measure plan and secure the local sponsors signatures.

If at all possible we would like to have the measure plan approved so that project agreements could be signed this fall to begin installation of the measure in the fall of 1980 or at least complete planning on individual units so that construction can begin in the spring of 1981. It would be desirable to complete the measure plan by October of 1981 so it can be considered in next Fiscal Year's operations.

Erwin O. Aust
Soil Conservationist

cc: R. Loudon
K. Edwards
R. Swank

820A North Main Street
Osceola, Iowa
50213

SOILS - West Lake

August 4, 1980

Duane Miller
Agricultural Economist
Planning & River Basin Staff
693 Federal Building
Des Moines, Iowa 50309

Enclosed is a copy of the West Lake area soil map which you requested.

If we can be of further assistance, let us know.

Dale L. Chidester
Soil Conservation Technician

Enclosure

5/13/80

3:45 p.m.

Keith:

Joe Ausan called -- He received a call today from Lincoln, RE: West Lake Measure -- They will have a ground control survey crew here some time next week -- We need to get a letter out to the landowners stating what they are doing (letter should go out over P. Henrichs signature) -- He requested we send a copy of the letter we mail to landowners to: Larry Edwards, Hoskins, Western, Sonderegger, Inc., 825 J St., P.O. Box 80358, Lincoln, NE 68501, so they can show it to the farmer when they go onto their land.

If you have any questions, Joe will be in his office Monday.

(He said if we got a letter out Monday it would probably be soon enough as they will work along the roads first.)

lm



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

May 19, 1980

To Landusers - West Lake Watershed

Good progress is being made on the Resource Conservation and Development measure plan to improve the quality of the soil and water resources that contribute to West Lake. We are hopeful that if the plan is accepted, funding can be obtained October 1 and some construction can begin this fall.

A contract to provide a ground control survey has been awarded to Hoskins, Western, Sonderegger, Inc., 825 J Street, P.O. Box 80358, Lincoln, Nebraska 68501, by the Soil Conservation Service. The information obtained from this survey will be used with low level aerial photographs taken last fall to produce contour maps of the entire watershed.

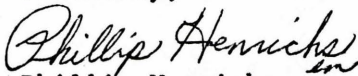
These contour maps will be valuable in planning terraces and erosion control structures to be installed in the project and can also aid in contour farming and contour strip cropping.

Most of the information can be obtained from surveys conducted on public road right of way. However, there is often a need to locate an elevation on private property.

The Clarke Soil Conservation District asks your cooperation in the next few weeks to facilitate a good quality set of contour maps for our use in future soil and water conservation.

Please call the Clarke Soil Conservation District Office (342-2917) if you need further information or clarification.

Sincerely,


Phillip Henrichs
Chairman

cc: Larry Edwards

Put on agenda?
[Signature]

MAY 8 1980

800 South Vine Street, Creston, Iowa 50801

RC&D - Letters of Intent

May 7, 1980

Erwin O. Aust
Area Conservationist
Soil Conservation Service
Shenandoah, Iowa

Enclosed are Letters of Intent which have been signed by applicants and the Executive Board Chairman of the Southern Iowa RC&D area for the following measures:

Talmage Hill Fish and Wildlife Development
RC&D Measure No. 19-6002-174-046

West Lake - Water Quality Management
RC&D Measure No. 19-6002-039-014

Greenfield Lake
Public Water Based Recreational Development
RC&D Measure No. 19-6002-001-029

One copy of each Letter of Intent is for your file and one copy of each is to be forwarded to the State Office.

Copies of Letter of Intent for all three projects were mailed direct to the Department of Soil Conservation and Regional Clearinghouse.

Robert Loudon
Robert Loudon *by ju*
RC&D Coordinator

Attachments:

cc: Bill Doran
Keith Edwards
Marvin Lundstedt

FEDERAL ASSISTANCE			2. APPLICANT'S APPLICATION	3. STATE APPLICATION IDENTIFIER	4. LEGAL APPLICANT/RECIPIENT	5. FEDERAL EMPLOYER IDENTIFICATION NO.
1. TYPE OF ACTION (Mark appropriate box) ☐ PREAPPLICATION ☐ APPLICATION ☐ NOTIFICATION OF INTENT (Opt.) ☐ REPORT OF FEDERAL ACTION	a. NUMBER	b. DATE Year month day 19 80 4	a. NUMBER	b. DATE Year month day ASSIGNED 19	6. PRO-GRAM (From Federal Catalog)	
4. LEGAL APPLICANT/RECIPIENT			5. FEDERAL EMPLOYER IDENTIFICATION NO. none			6. PRO-GRAM (From Federal Catalog)
a. Applicant Name : Sponsors names and addresses b. Organization Unit : and signatures are on attached sheet c. Street/P.O. Box : d. City : e. County : f. State : g. ZIP Code : h. Contact Person (Name & telephone No.) :			a. NUMBER 1 0 9 0 1 b. TITLE Resource Conservation and Development			
7. TITLE AND DESCRIPTION OF APPLICANT'S PROJECT West Lake - Water Quality Management Measure consists of installing management practices to improve the quality of water in the lake and prolong the life of the reservoir. Practices include A. Terraces-parallel-sediment and water control basin-diversions to include intakes; underground outlet and vegetated back slopes and B. Grade Stabilization Structures to include waterways			8. TYPE OF APPLICANT/RECIPIENT A-State B-Interstate C-Substate D-District E-City F-School District G-Special Purpose District H-Community Action Agency I-Higher Educational Institution J-Indian Tribe K-Other (Specify): More than one sponsor Enter appropriate letter ☒ K			
10. AREA OF PROJECT IMPACT (Names of cities, counties, States, etc.) Clarke County, Iowa			11. ESTIMATED NUMBER OF PERSONS BENEFITING 17,500			12. TYPE OF APPLICATION A-New B-Renewal C-Revision D-Continuation E-Augmentation Enter appropriate letter ☒ A
13. PROPOSED FUNDING			14. CONGRESSIONAL DISTRICTS OF:			15. TYPE OF CHANGE (For 12c or 12e) A-Increase Dollars B-Decrease Dollars C-Increase Duration D-Decrease Duration E-Cancellation Enter appropriate letter(s) ☐ ☐ ☐
a. FEDERAL \$ 540,746 .00 b. APPLICANT .00 c. STATE .00 d. LOCAL 60,083 .00 e. OTHER .00 f. TOTAL \$ 600,829 .00			a. APPLICANT IA-5 b. PROJECT IA-5 16. PROJECT START DATE Year month day 19 80 17. PROJECT DURATION 36 Months 18. ESTIMATED DATE TO BE SUBMITTED TO FEDERAL AGENCY Year month day 19 80 4			19. EXISTING FEDERAL IDENTIFICATION NUMBER N/A
20. FEDERAL AGENCY TO RECEIVE REQUEST (Name, City, State, ZIP code) U.S. Soil Conservation Service, Federal Bldg., 210 Walnut, Des Moines, Iowa 50309			21. REMARKS ADDED ☐ Yes ☒ No			
22. THE APPLICANT CERTIFIES THAT a. To the best of my knowledge and belief, data in this preapplication/application are true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved. b. If required by OMB Circular A-95 this application was submitted, pursuant to instructions therein, to appropriate clearinghouses and all responses are attached: (1) Southern Iowa Regional Planning Agency ☒ (2) ☐ (3) ☐			23. CERTIFYING REPRESENTATIVE a. TYPED NAME AND TITLE See attached sheet for name b. SIGNATURE c. DATE SIGNED Year month day 19			
24. AGENCY NAME			25. APPLICATION RECEIVED Year month day 19			
26. ORGANIZATIONAL UNIT			27. ADMINISTRATIVE OFFICE			28. FEDERAL APPLICATION IDENTIFICATION
29. ADDRESS			30. FEDERAL GRANT IDENTIFICATION			
31. ACTION TAKEN ☐ a. AWARDED ☐ b. REJECTED ☐ c. RETURNED FOR AMENDMENT ☐ d. DEFERRED ☐ e. WITHDRAWN			32. FUNDING a. FEDERAL \$.00 b. APPLICANT .00 c. STATE .00 d. LOCAL .00 e. OTHER .00 f. TOTAL \$.00			33. ACTION DATE Year month day 19 34. STARTING DATE Year month day 19 35. CONTACT FOR ADDITIONAL INFORMATION (Name and telephone number) 36. ENDING DATE Year month day 19 37. REMARKS ADDED ☐ Yes ☐ No
38. FEDERAL AGENCY A-95 ACTION a. In taking above action, any comments received from clearinghouses were considered. If agency response is due under provisions of Part 1, OMB Circular A-95, it has been or is being made. b. FEDERAL AGENCY A-95 OFFICIAL (Name and telephone no.)						

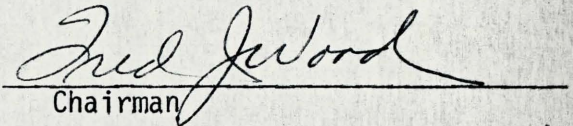
SOUTHERN IOWA RESOURCE CONSERVATION AND DEVELOPMENT AREA
APPLICATION FOR FEDERAL ASSISTANCE - Signature Page

Measure Number 19-6002-039-014

West Lake
Water Quality Management

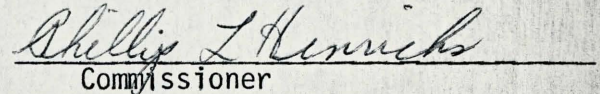
This Measure Application has been approved by the following signatories
by resolution on the dates specified:

City of Osceola
Board of Waterworks Trustees


Chairman

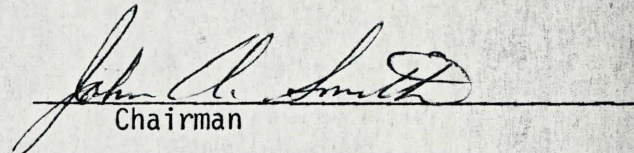
Date - 5-1-80

Clarke County Soil Conservation District


Commissioner

Date 5-5-80

Executive Board, Southern Iowa RC&D Area


Chairman

Date 5-5-80

MAY 22 1980

SOUTHERN IOWA
RESOURCE CONSERVATION AND DEVELOPMENT PROJECT

INCLUDING COUNTIES OF:
ADAIR RINGGOLD
ADAMS TAYLOR
CLARKE UNION
DECATUR

May 7, 1980

Lawrence G. Vance, Director
Iowa Department of Soil Conservation
Wallace State Office Building
Des Moines, Iowa 50319

Dear Mr. Vance:

Attached are copies of Letters of Intent for Southern Iowa RC&D Area Measures:

Adair	Talmage Hill Fish and Wildlife Development (Union County) RC&D Measure No. 19-C002-075-046
	West Lake - Water Quality Management (Clarke County) RC&D Measure No. 19-6002-039-014
Greenfield Lake (Adair County) Public Water Based Recreational Development RC&D Measure No. 19-6002-001-029	

I would appreciate your review, the forwarding of needed copies to the appropriate clearinghouse personnel and also maintaining the necessary liaison with the State Office of the Soil Conservation Service.

Taylor

Ringgold

Decatur

Very truly yours,

Franklin Mann, Chairman
Executive Board

Southern Iowa Resource Conservation
and Development Area

Attachments

cc: Bill Doran, District Conservationist, Union County
Keith Edwards, District Conservationist, Clarke County
Marvin Lundstedt, District Conservationist, Adair County

APR 24 1980

800 South Vine Street, Creston, Iowa 50801

RC&D - West Lake Water Quality Management
Preliminary Report
RC&D Measure No. 19-6002-039-014

April 23, 1980

Erwin O. Aust
Area ~~Conservation~~ist
Soil Conservation Service
Shenandoah, Iowa

Attached are twelve copies of draft measure plan for West Lake
Water Quality Management, Measure No. 19-6002-039-014, to be
forwarded to the State Office staff for their review and comments.

Robert Loudon
Robert Loudon
RC&D Coordinator

Enclosures

cc: Keith Edwards
w/attachment



CLARKE COUNTY SOIL CONSERVATION DISTRICT

820 A North Main Street

Phone 342-2917

Osceola, Iowa 50213

April 17, 1980

Keith Edwards
District Conservationist
Soil Conservation Service
820A North Main Street
Osceola, Iowa 50213

Dear Keith:

The Clarke County Soil Conservation District Commissioners would like to request your assistance for inventory and evaluation on West Lake Watershed for planning purposes. We will use this information to try and secure RC&D funding.

Sincerely,

Phillip L Henrichs

Phillip Henrichs
Chairman

WES
APR 3 1980

4/2/80

Keith Edwards

Bob Loudon

Re: West Lake Water Quality Management RC&D Measure
Clarke County Soil Conservation District

Some thoughts for you to consider if questioned on the high level cost-share rate:

A high level of cost-sharing is needed to provide incentive to move people into a rapid application of expensive practices. A lower percentage could be considered if a longer time period was planned. A high percentage is needed for various reasons:

More expensive practices, such as larger erosion control dams, while healing a gully, take land out of production, as well as require a significant capital outlay, thus a high percentage level is required as an incentive.

Terrace construction - rather than making a separate program to pay for making land available for summer construction, etc., the high percentage should provide adequate incentive so that they not only will construct large amounts in a short period of time, they will adjust cropping systems to make lands available for summer construction as well.

Providing a high incentive to get the work done quickly will get improved water quality and protection to the water supply sooner.

Being able to administer the program quickly will add efficiency to SCS operations, both in technical assistance and in administration.



Erwin O. Aust
Area Conservationist

West Lab's WS mtg.

3-17-80

United Federal Savings Bldg.

Keith Edwards

Doyce Miller

Kenneth Routh

Don C. Martin

Jack Misk

Deland Shaw

Marlow Peterson

Richard T. Boust

Mike Miletich

K.C. Kiekenny

Jim Hebl

Ronald E. Edgington

Betty Grebb

John D. Webb

Burgess M. Hendry

Carl Smith

Michael J. Seltzer

Walter Patterson

Lorenda Davis

8:15

Letter sent to the following:

Attached list of West Lake
Area Landowners
Osceola Municipal Water Board
(Dr. Fred Wood, Con
Smith, B. M. Shadley)
Clarke Co. RC&D Board
SCD Commissioners

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

820A North Main Street, Osceola, Iowa 50213

March 13, 1980

MEETING NOTICE

The Clarke County Soil Conservation District will hold a follow-up meeting to the meeting held March 11 with West Lake area landowners. The farmers who attended felt we should hold another meeting and ask the Osceola Municipal Water Board to meet with us. This meeting will be held Monday, March 17, 7:00 p.m., United Federal Savings & Loan Building.

Please plan to attend and bring a neighbor!

W. Keith Edwards

W. Keith Edwards
District Conservationist

cc: Robert Loudon



1426

447-2415 Merle Klein *Stop and look* Route 2, Osceola 50213
~~Monty Chew~~ *owner* ~~Route 2, Murray 50174 (Formerly Ruth Lazadeer Farm)~~
 447-2581 Wayne Boor *Rosalee Redman Interested* Route 2, Murray 50174
 2-6102 Robert Glasco 1000 Route 2, Osceola 50213
 2-4078 Ed Ratashak 5000-6000 Route 2, Osceola 50213 (Dr. Kirkpatrick Farm)
~~Claude Boggs Dale Stephenson~~ Route 2, Osceola 50213
 2-2892 Don Edgington * Farm visit Route 2, Osceola 50213
 2-2896 Jack Nish Not this year. Route 2, Osceola 50213
 2-2733 James Webb 1000 SW of house F.V. Route 2, Osceola 50213
 2-2208 Richard Touet * Thursday F.V. Route 2, Osceola 50213
 2-2883 Merle Patterson look above pond 1000 Route 2, Osceola 50213
 2-2988 John Webb 5000-6000 Route 2, Osceola 50213
 2-2885 Dale Stephenson Not Interested Route 2, Osceola 50213
 2-2378 Keith Weakland Farm visit Route 2, Osceola 50213
 2-3400 Olin Marquis Stripcraps 120 W. Logan, Osceola 50213
 447-2165 Darrell Flaherty Interested *2000/1000* Route 2, Osceola 50213
 2-2887 Frank Reynolds *Don't know* Route 2, Osceola 50213
 2-2867 Gerald Davis 7:00 → Route 3, Osceola 50213
 2-2875 Sam Audelhelm check on drainage Route 2, Osceola 50213
 2-2873 P. A. Smith Not Interested Route 2, Osceola 50213
 2-2888 Glen Stephenson Not Interested Route 2, Osceola 50213 → Dale farms
 2-2890 Paul Audelhelm Interested 1000 Route 2, Osceola 50213
 2-4375 Leland Shaw Reservoir Uncertain Route 2, Osceola 50213
 2-3433 M. M. Peterson Interested 1000 Route 2, Osceola 50213
 2-4179 Sydney Gross Ron Edgington on farm Route 2, Osceola 50213
~~Hubert Price 1000~~ Route 2, Osceola 50213
 2-4532 Milton Miletich Art Pontier farms Route 2, Osceola 50213
~~Arben Poland~~ *interested* 417 N. Main, Osceola 50213
 2-6260 Tom Iwed Route 2, Osceola 50213
 2-2339 Merrill Dorland Interested - Waterways Route 2, Osceola 50213
~~Russell Hass R.L. BRANNSCHWEIG~~ R.R. 2, Box 98, Sac City 50585 *Boahontas, Randy Busse*
 2-2870 Earl Steel Sold land 416 East McLane, Osceola 50213
 2-4734 Bill Kelso See Next week 1000 Route 2, Osceola 50213
 2-2298 Jay Wolfe Randy Dunbar (contact Kenneth) 616 N. State, Osceola 50213
 2-2009 Clarence Neff 112 S. Jackson, Osceola 50213
~~Hap Clifton Dale Stephenson~~ Route 2, Osceola 50213
 2-3547 Kenneth M. Clark Not Interested Route 2, Osceola 50213
~~Casey Kalkinney 2000-3000 per year~~ R. 2, Osceola
 2-4129 *(Kalkinney Brothers)*
 2-2123 Bob Byers Cost Estimate East of Bldgs. - Not in Watershed
Regal Inn, Osceola 50213
 2-4870 Ron Edgington Look

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

820A North Main Street, Osceola, Iowa 50213

March 6, 1980

MEETING NOTICE

The Clarke County Soil Conservation District will hold a meeting Tuesday, March 11, 7:00 p.m. at the Soil Conservation Service office for West Lake area landowners. We will discuss writing a group plan for erosion control and possible method of Resource Conservation and Development cost-share funding.

Please plan to attend and bring a neighbor.

W. Keith Edwards
W. Keith Edwards
District Conservationist

cc: Robert Loudon



Merle Klein
Monty Chew
Wayne Boor
Robert Glasco
Ed Ratashak
Claude Boggs
Don Edgington
Jack Nish
James Webb
Richard Touet
Merle Patterson
John Webb
Dale Stephenson
Keith Weaklend
Olin Marquis
Darrell Flaherty
Frank Reynolds
Gerald Davis
Sam Audelhelm
P. A. Smith
Glen Stephenson
Paul Audelhelm
Leland Shaw
M. M. Peterson
Sydney Gross
Hubert Price
Milton Miletich
Arben Foland
Tom Iwed
Merrill Dorland
Russell Hass
Earl Steel
Bill Kelso
Jay Wolfe
Clarence Neff
Hap Clifton
Kenneth M. Clark

Route 2, Osceola 50213
Route 2, Murray 50174 (Formerly Ruth Lazadeer Farm)
Route 2, Murray 50174
Route 2, Osceola 50213
Route 2, Osceola 50213 (Dr. Kirkpatrick Farm)
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Route 2, Osceola 50213
120 W. Logan, Osceola 50213
Route 2, Osceola 50213
Route 2, Osceola 50213
Route 3, Osceola 50213
Route 2, Osceola 50213
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Route 2, Osceola 50213
417 N. Main, Osceola 50213
Route 2, Osceola 50213
Route 2, Osceola 50213
R.R. 2, Box 98, Sac City 50583
416 East McLane, Osceola 50213
Route 2, Osceola 50213
616 N. State, Osceola 50213
112 S. Jackson, Osceola 50213
Route 2, Osceola 50213
Route 2, Osceola 50213

Letter also mailed to SCD Commissioners