George – Here is a case in point of soil from 2 sites w/same owner wanting to go to our Land app. site. What do you think?

They still need to supply some extra info but I wanted to discuss it w/you first.

Robyn

APPROVE AT
200 YARDS/ACRE 2 INCHES THICK

7/30 Cancelled – They don't have enough land after all. City plans on building

Robyn

APPLICATION TO LAND APPLY PETROLEUM CONTAMINATED SOIL

RECEIVED
MAY 23 1990
MPCA, HAZARDOUS WASTE DIVISION

Minnesota Pollution Control Agency
Tanks and Spills Section
April 25, 1990

Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on acceptable soil and site criteria.

I. BACKGROUND INFORMATION

A. Tank owner/operator mailing address:

Contact: Mr. Jerry Scott
Company name: Hallock School District 351
Street/Box: P.O. Box 670
City, Zip: Hallock, MN 56728
Telephone: (218) 843-3682

B. Site from which contaminated soil originated:

Company name: Hallock High School
Street: 47 North Ash Street
City, Zip: Hallock, MN 56728
County: Kittson

C. Address or legal descripton of land spreading site:

Contact: Henry P. Noel
Street:
City, Zip:
Telephone: (218) 843-2737

NE 1/4 of SW 1/4 of Section 13,
Township 161N, Range 49W Township Name Hallock

D. Consultant (or other) preparing this form:

Contact: Craig F. Diekvoss
Company name: Midwest Environmental Control Corp.
Street/Box: 3901 University Ave. NE
City, Zip: Minneapolis, MN 55421
Telephone: (612) 781-1647

E. MPCA Site ID#: LEAK0000 1318 ✓
F. Volume of soil to be land applied (cubic yards): 400 cubic yards ✓
G. Projected date of application of soil: before June 15, 1990
H. Have there been past waste disposal activities at the proposed site?
No X Yes ___, please explain.

II. SITE AND SOIL CHARACTERISTICS

A. Site slope (percent): 1-2% ✓
B. Distance to surface water (feet or miles): 1,000 ft.
C. Distance to nearest building or residence (feet): 250 ft.
D. Depth to seasonal high water table (feet): >15 ft. ✓
Depth to field tile lines (feet): --
If bedrock exists at 8 feet or less, indicate depth (feet): —
E. Area of land to be used (square feet or acres): 1 acre ✓
F. Spreading thickness (inches): 3 - 4 in. ✓

III. SOIL SAMPLING RESULTS

A. If soil nutrient tests were conducted, list the results below:

Sample Number	Organic Matter, Percent	Extractable Phosphorus, ppm
Hall 13-1	6.1%	32 lb./acre

If fertilizers will be applied, provide application rates:
_____ lbs. nitrogen/acre, _____ lbs. P_2O_5/acre, _____ lbs. sulfur/acre

B. Circle the type(s) of petroleum contamination: unleaded gas, regular gas, diesel fuel, (No. 2 fuel oil), waste oil, other (please specify) _____.

List the appropriate soil sample analytical results from the excavated contaminated soil (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table.

Sample Number	THC as gas or FO ppm	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm	
SP-1	8.3 ppm	<0.005	0.014	<0.005	0.022			see report for lab report
SP-2	56 ppm	0.062	0.012	0.063	0.57			

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

IV. FIGURES

Include the following figures:

A. Copy of county soil survey map (if the county has been mapped) with copies of the interpretation tables or interpretation sheets.
B. Site location map with exact application location marked (scale should be approximately one inch = 50 feet)

****

Signature and Title of MPCA Staff Inspector (or other authorized inspector):

_____ Date Inspected : _____

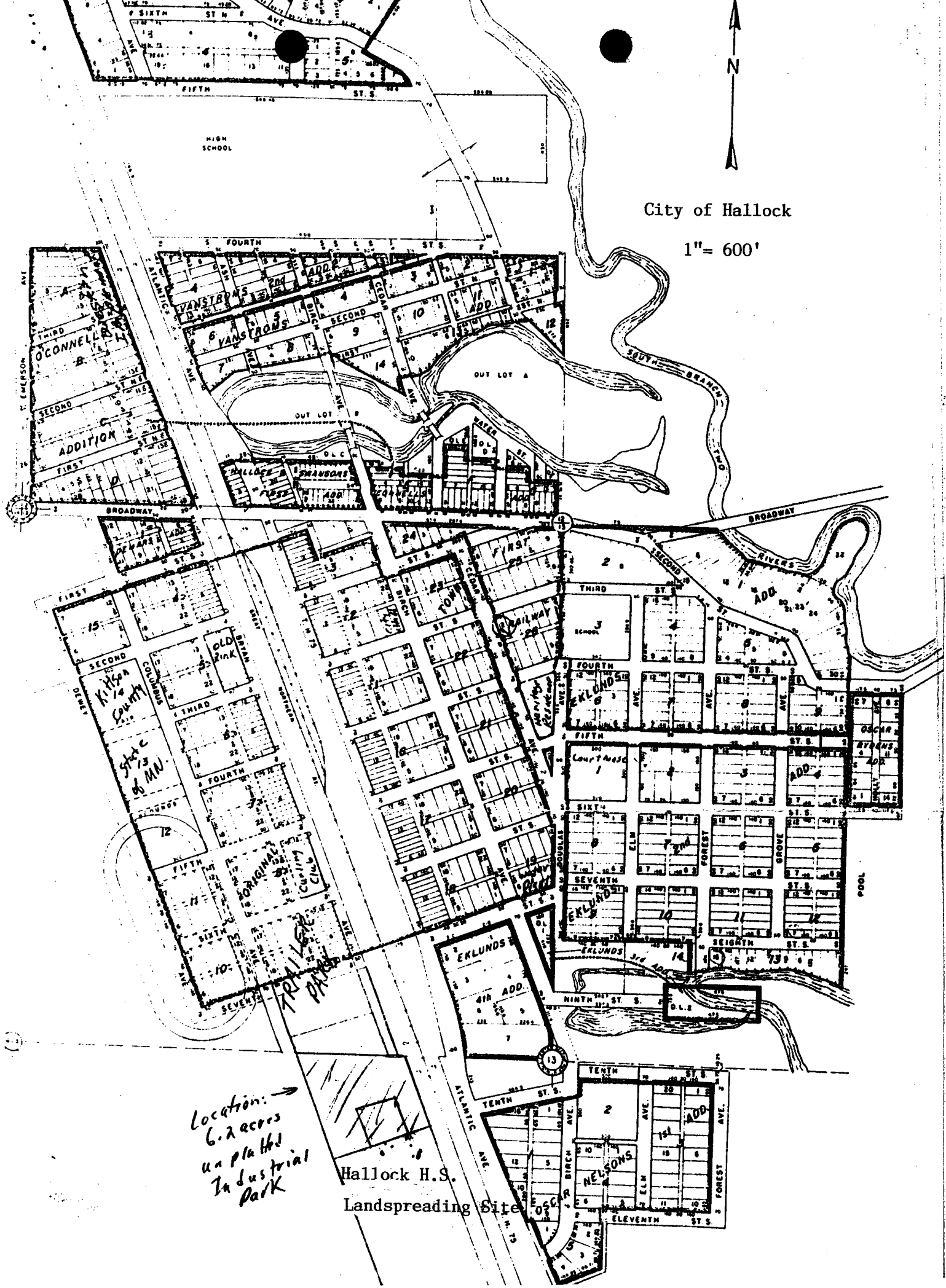
Signature and Title of County Official: _____

Signature and Title of City/Township Official: _____

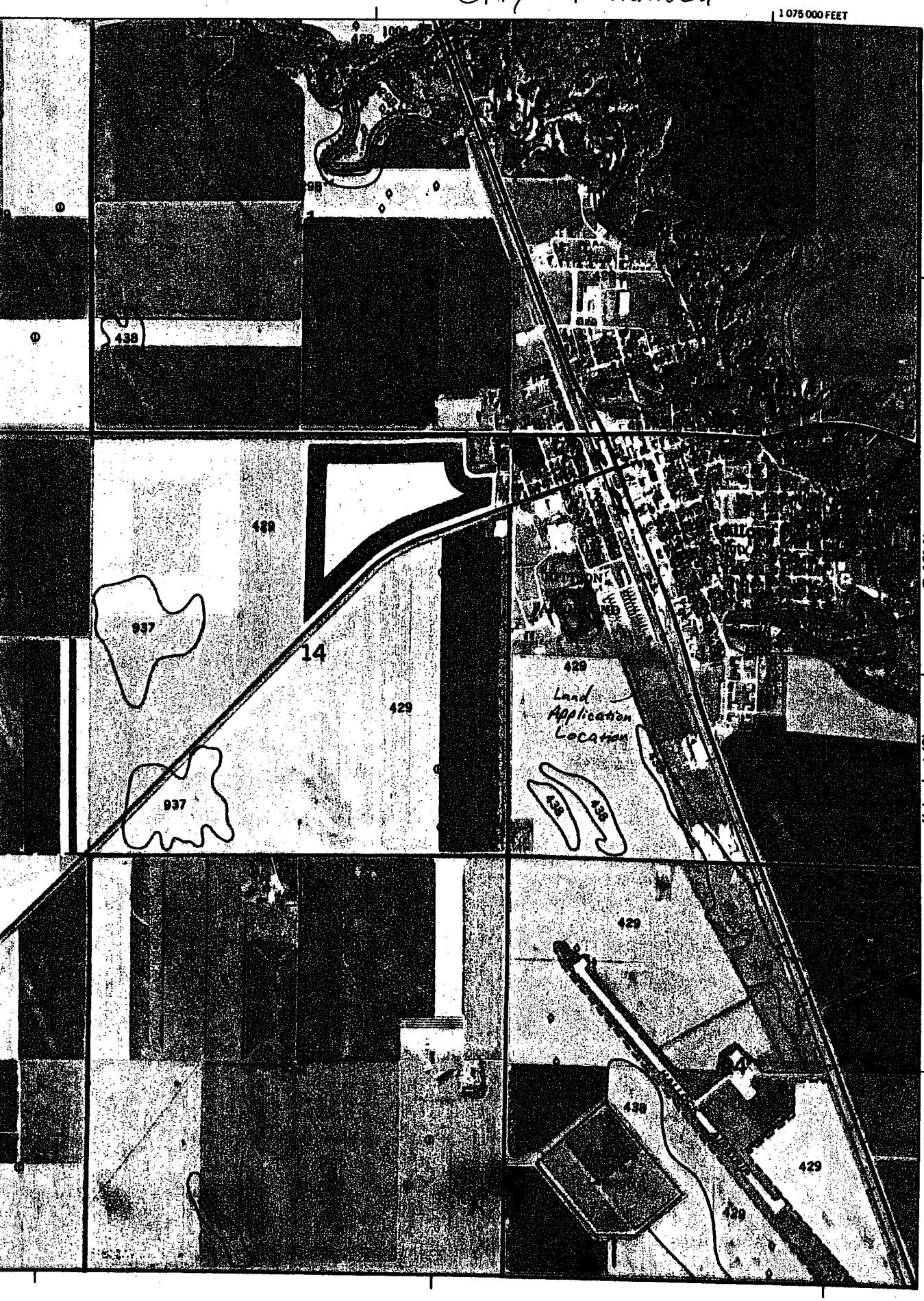
****

Mail to:

Minnesota Pollution Control Agency
Attention: (Project Manager)
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155


City of Hallock
1"= 600'
N
Location: 6.2 acres unplatted Industrial Park
Hallock H.S.
Landspreading Site
BROADWAY
FIFTH ST S
FOURTH ST S
THIRD ST S
SECOND ST S
FIRST ST S
SIXTH ST S
SEVENTH ST S
EIGHTH ST S
NINTH ST S
TENTH ST S
ELEVENTH ST S
ATLANTIC AVE
BIRCH AVE
CEDAR AVE
ELM AVE
FOREST AVE
GROVE AVE
SOUTH BRANCH TWO
RAILWAY
POOL

City of Hallock



SOIL LEGEND

Symbols consist of numbers or a combination of numbers and letters, for example 61, 157, 157B, or 1002. The 1, 2, 3, or 4 digit number designates the kind of soil or land type. A capital letter B following a number indicates the class of slope. Symbols without a slope letter usually are nearly level.

SYMBOL	NAME
45	Maddock soils, 0 to 2 percent slopes
46	Borup loam
47	Colvin silty clay loam
50	Cashel clay
52	Augsburg soils
59	Grimstad soils, 0 to 2 percent slopes
60	Glyndon soils, 0 to 2 percent slopes
61	Arveson soils
63	Rockwell soils
64	Ulen soils, 0 to 2 percent slopes
65	Fexhome soils, 0 to 2 percent slopes
67	Bearden silt loam, 0 to 2 percent slopes
77	Games soils, 0 to 2 percent slopes
93	Bearden silty clay loam, 0 to 2 percent slopes
93B	Bearden silty clay loam, 2 to 6 percent slopes
111	Hangaard soils
116	Redby soils, 0 to 2 percent slopes
117	Cormant soils
145	Enstrom loamy fine sand, 0 to 2 percent slopes
148	Poppleton soils, 0 to 2 percent slopes
157	Wahpeton silty clay, 0 to 2 percent slopes
157B	Wahpeton silty clay, 2 to 6 percent slopes
187	Haug muck
205	Karlstad soils, 0 to 2 percent slopes
242	Marquette soils, 0 to 2 percent slopes
248	Lohnes soils, 0 to 6 percent slopes
280	Pelan soils, 0 to 2 percent slopes
296	Fram soils, 0 to 2 percent slopes
343	Wheatville soils, 0 to 2 percent slopes
379	Percy bouldery soils
383	Percy soils, calcareous surface
384	Percy soils, depressional
403	Viking soils
412	Mavie soils
424	Augsburg soils, depressional
425	Donaldson soils, 0 to 2 percent slopes
426	Foldahl soils, 0 to 2 percent slopes
427	Fram soils, leached, 0 to 3 percent slopes
429	Northcote clay, 0 to 2 percent slopes
429B	Northcote clay, 2 to 6 percent slopes
430	Noyes soils
432	Strandquist soils
433	Syrene soils, very wet
435	Syrene soils
438	Northcote clay, depressional
482	Grygla soils
543	Markey muck
544	Cathro muck
547	Deerwood muck
581	Percy soils
582	Rollss soils
583	Nereson soils, 0 to 2 percent slopes
908	Bearden-Fargo complex
937	Hegne-Northcote complex
991	Northcote and Wahpeton soils
993	Arveson and Cormant soils, depressional
994	Rockwell and Grygla soils, depressional
1002	Alluvial land, frequently flooded
1006	Breaks and Alluvial land
1025	Dune land
1053	Marsh

(218)
KITTSON SCS 843-2619

CULTURAL FEATU

BOUNDARIES

- National, state or province —
- County or parish —
- Minor civil division —
- Reservation (national forest or park, state forest or park, and large airport) —
- Land grant —
- Limit of soil survey (label) —
- Field sheet matchline & neatline —

AD HOC BOUNDARY (label)

- Small airport, airfield, park, oilfield, cemetery, or flood pool

STATE COORDINATE TICK —

LAND DIVISION CORNERS (sections and land grants) L

ROADS

- Divided (median shown if scale permits) =
- Other roads —
- Trail —

ROAD EMBLEMS & DESIGNATIONS

- Interstate
- Federal
- State
- County, farm or ranch

RAILROAD +—

POWER TRANSMISSION LINE (normally not shown) ...

PIPE LINE (normally not shown) —

FENCE (normally not shown) —

LEVEES

- Without road
- With road
- With railroad

DAMS

- Large (to scale)
- Medium or small

PITS

- Gravel pit
- Mine or quarry

CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

CULTURAL FEATURES

BOUNDARIES

- National, state or province
- County or parish
- Minor civil division
- Reservation (national forest or park, state forest or park, and large airport)
- Land grant
- Limit of soil survey (label)
- Field sheet matchline & neatline

AD HOC BOUNDARY (label)

- Small airport, airfield, park, oilfield, cemetery, or flood pool

STATE COORDINATE TICK

LAND DIVISION CORNERS (sections and land grants)

ROADS

- Divided (median shown if scale permits)
- Other roads
- Trail

ROAD EMBLEMS & DESIGNATIONS

- Interstate
- Federal
- State
- County, farm or ranch

RAILROAD

POWER TRANSMISSION LINE (normally not shown)

PIPE LINE (normally not shown)

FENCE (normally not shown)

LEVEES

- Without road
- With road
- With railroad

DAMS

- Large (to scale)
- Medium or small

PITS

- Gravel pit
- Mine or quarry

MISCELLANEOUS CULTURAL FEATURES

- Farmstead, house (omit in urban areas)
- Church
- School
- Indian mound (label)
- Located object (label)
- Tank (label)
- Wells, oil or gas
- Windmill
- Kitchen midden

WATER FEATURES

DRAINAGE

- Perennial, double line
- Perennial, single line
- Intermittent
- Drainage end
- Canals or ditches
  - Double-line (label)
  - Drainage and/or irrigation

LAKES, PONDS AND RESERVOIRS

- Perennial
- Intermittent

MISCELLANEOUS WATER FEATURES

- Marsh or swamp
- Spring
- Well, artesian
- Well, irrigation
- Wet spot

SPECIAL SYMBOLS FOR SOIL SURVEY

SOIL DELINEATIONS AND SYMBOLS 93 4298

ESCARPMENTS

- Bedrock (points down slope)
- Other than bedrock (points down slope)

SHORT STEEP SLOPE

GULLY

DEPRESSION OR SINK

SOIL SAMPLE SITE (normally not shown)

MISCELLANEOUS

- Blowout
- Clay spot
- Gravelly spot
- Gumbo, slick or scabby spot (sodic)
- Dumps and other similar non soil areas
- Prominent hill or peak
- Rock outcrop (includes sandstone and shale)
- Saline spot
- Sandy spot
- Severely eroded spot
- Slide or slip (tips point upslope)
- Stony spot, very stony spot
- Detrimental deposit, 5 acres or less
- High lime soil, 2 acres or less
- Better drained soil in poorly drained area, 2 acres or less
- Borrow pit

City of Hallock

163 South Third

Hallock, Minnesota 56728

(139)

February 6, 1990

Jerry Scott
Hallock High School
Box 670
Hallock, MN 56728

Dear Jerry:

The Council has voted to allow the school to place the contaminated fill on our property in the industrial park. This would be conditional on the school hiring a qualified engineer to prepare the "Land Application and Treatment" form needed by MPCA. I expressed some of the Council's concerns with her. She says that we would have nothing to worry about if a qualified firm were retained by you.

She was confident that Midwest Environment could provide all of the services necessary to complete the job. Once the fill is removed to the approved site, it would be up to the school district to have the area tilled in the Spring, Summer and Fall. After one or two summers, the job would apparently complete.

The Council has not asked for any specific agreement to be drafted. They are confident in the comments of Linda Tanner and Craig Diekvoss. You may proceed.

Sincerely,

Henry P. Noel

HPN:ro

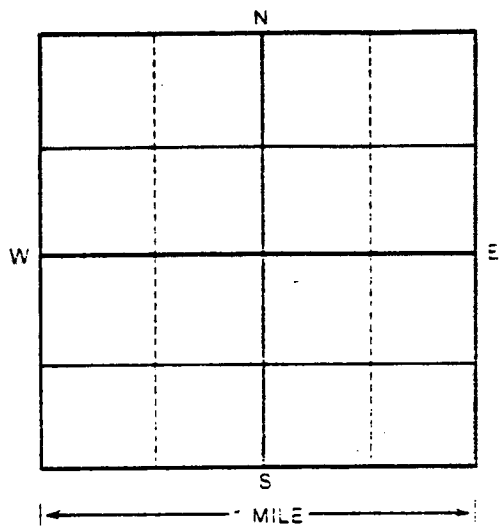
AGVISE

for office use only
DATE ORDERED: _____
SAMPLE DATE: _____ BY: _____

177953
LAB USE ONLY

BILL TO ☐
GROWER Ind School District #351
ADDRESS Hallock
MN ZIP 56728

BILL TO ☐
FIRM SUBMITTING SAMPLES
NAME Hallock Agvise
ADDRESS Hallock
ZIP _____



Crop Choice	Yield Goal	P & K applied Band	Bdcst.	Bdcst. w/maint.
1st _____	_____	☐	☐	☐
2nd _____	_____	☐	☐	☐
3rd _____	_____	☐	☐	☐

County Kitson
Township Hallock
Section 13
Quarter _____
Field Hall 13-1
Acres 6
Previous Crop: _____

SOIL ANALYSIS

SUGGESTED OPTION BY CROP CHOICE:

SMALL GRAIN -	Nitrogen, Phosphorus, Potassium, pH, Salts, Sulfur, Chloride	GRAIN _____
ROW CROP -	(beans, corn, flax, sunflowers) Nitrogen, Phosphorus, Potassium, pH, Salts, Sulfur, Zinc, Copper, % Organic Matter	ROW CROP _____
POTATO -	Nitrogen, Phosphorus, Potassium, pH, Salts, Sulfur, Zinc, Copper, Boron, % Organic Matter	POTATO _____
SUGAR BEET -	Nitrogen, Phosphorus, Potassium, pH, Salts, Sulfur, Boron, Zinc, % Organic Matter	SUGAR BEET _____
ALFALFA -	Phosphorus, Potassium, pH, Sulfur, Zinc, Boron, Liming Requirement, % Organic Matter	ALFALFA _____

MULTIPLE ELEMENT OPTIONS:

OPTION A -	Nitrogen, Phosphorus, Potassium, pH, Salts, Sulfur, Zinc, % Organic Matter Total Carbon	A. X
OPTION B -	Nitrogen, Phosphorus, Potassium, pH, Salts	B. _____
OPTION C -	Phosphorus, Potassium, pH, Salts, % Organic Matter	C. _____
OPTION D -	Phosphorus, Potassium, pH	D. _____
OPTION E -	% Organic Matter, Phosphorus, Potassium, Calcium, Magnesium, pH, CEC, Lime, % Base Saturation	E. _____
OPTION F -	Complete Analysis - Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Sulfur, Zinc, Iron, Manganese, Copper, Boron, Chloride, % Organic Matter, pH, Salts, Sodium, CEC, % Base Saturation	F. _____
SOIL/HERBICIDE COMPATIBILITY TEST -	CEC, pH, % Organic Matter, Textural Analysis	_____

Depth of Test

0-6"	___
0-6", 6-24"	X
0-6", 0-24"	___
0-24"	___
24"-48"	___
24-36", 36-48"	X
Other	_____

PARTIAL

Nitrogen	___
Organic Matter	___
Boron	___
Texture (%sand, silt, clay)	___
Chloride	___

LABORATORY
Box 510 Hwy. 15
Northwood, ND 58267
(701) 587-6010

FIELD OFFICE
1514 Central Ave. NE
East Grand Forks, MN 56721
(218) 773-3298

LABORATORY
Box 187 902 13th Street N.
Benson, MN 56215
(612) 843-4109

White Copy AGVISE · Yellow Copy Submitter · Pink Copy Grower · No copy of this form will be returned with your results.

AGVISE Soil Test Report

BOX 510
NORTHWOOD ND 58267
(701) 587-6010

Bob Deutsch

NAME SCHOOL DISTRICT #351
ADDRESS HALLOCK MN
56728

SUBMITTED BY HALLOCK AGSCO
P.O. BOX 57
HALLOCK MN 56728

DATE RECEIVED 3 / 29 / 90
DATE REPORTED 4 / 3 / 90

LAB NO.	371
REF NO.	177953

FIELD NO. HALL 13-1 CO. KITTSON TWP. HALLOCK SEC. 13 QTR. ACRES 6

Nutrient In The Soil			Interpretation				1st Choice		2nd Choice		3rd Choice	
			V. LOW	LOW	MED.	HIGH	CROP		CROP		CROP	
0 - 6	6	lb/ac					Yield Goal		Yield Goal		Yield Goal	
Nitrate N 6 - 24	9	lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
0 - 24	15	lb/ac	###				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
24- 36	6	lb/ac					N		N		N	
36- 48	2	38→ lb/ac					P_2O_5		P_2O_5		P_2O_5	
Available Total deep N = 0			$				K_2O		K_2O		K_2O	
NaHCO3 Phosphorus	32	lb/ac	##########				Mg		Mg		Mg	
Potassium	92	lb/ac	#####				Ca		Ca		Ca	
Magnesium							Cl		Cl		Cl	
Calcium							B		B		B	
Chloride							S		S		S	
Boron							Zn		Zn		Zn	
0 - 6	18	ppm	##########				Fe		Fe		Fe	
Sulfur 6 - 24	20	ppm	##########				Mn		Mn		Mn	
Zinc	1.68	ppm	##########				Cu		Cu		Cu	
Iron												
Manganese												
Copper												
Sodium												

% Organic Matter	6.1
Soil pH	7.7
Buffer pH	
Soluble Salts (mmhos/cm) 0- 6	0.54
6 - 24	0.64
CEC	

Actual % Calcium	Suggested Calcium
	65 - 75
Actual % Magnesium	Suggested Magnesium
	15 - 20
Actual % Potassium	Suggested Potassium
	1 - 7
Actual % Sodium	Suggested Sodium
	0 - 5
Actual % Hydrogen	Suggested Hydrogen
	0 - 5

NOTES:

Please call