

Appendix C

City of Andover Data from Swept and Vacuumed Sediment

Grain Size Distribution ASTM D422

Job No. : **6095**

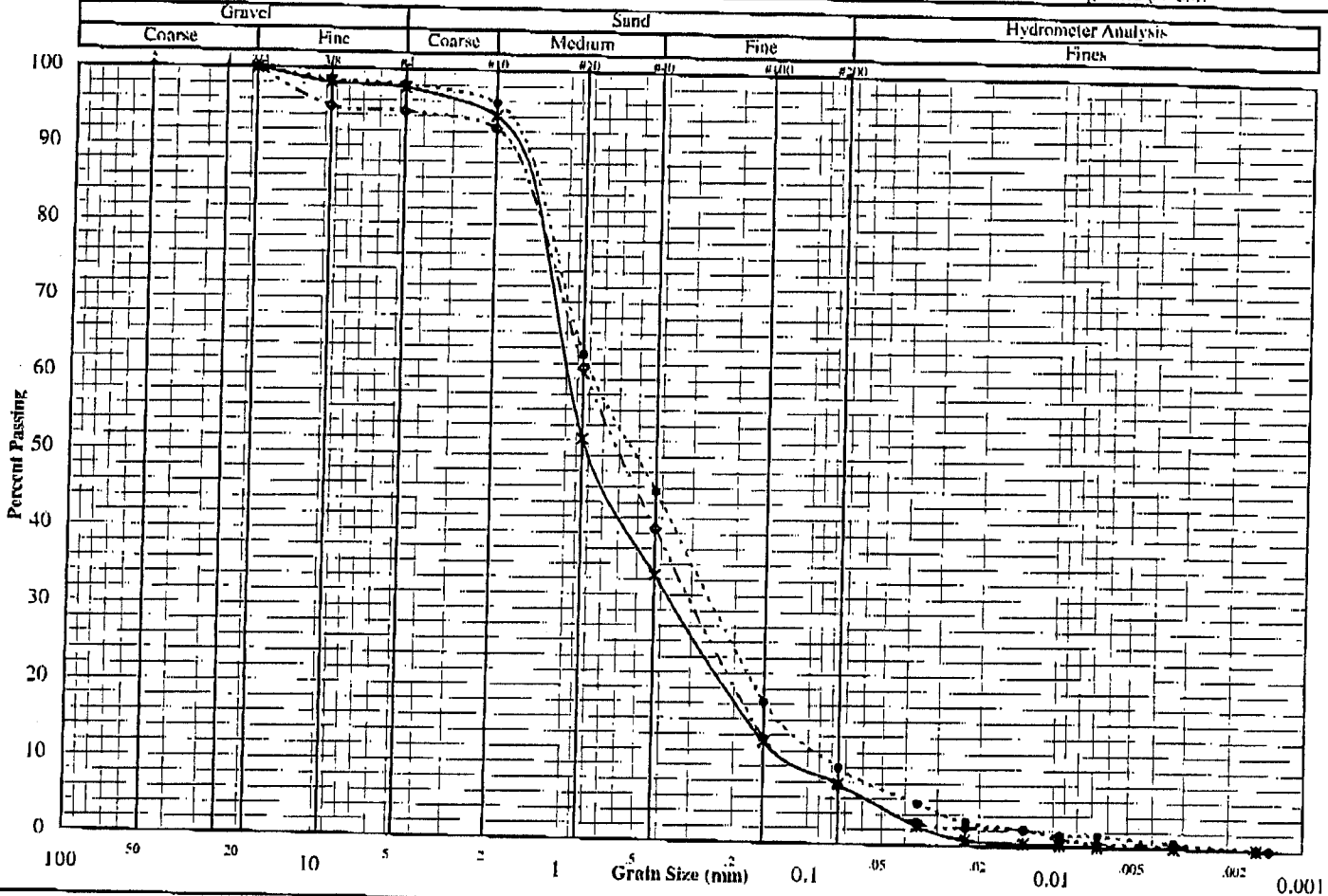
Project: City of Andover Street Sweepings

Test Date: 5/17/07

Reported To: Northern Technologies, Inc.

Report Date: 5/22/07

Location / Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
	1		lar	Sand w/silt and a trace of gravel, medium grained (SP-SM)
	2		lar	Sand w/silt, medium grained (SP-SM)
	3		lar	Sand w/silt and a little gravel, medium to fine grained (SP-SM)



Other Tests	*	•	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content			
Dry Density (pcf)			
Specific Gravity	2.67*	2.67*	2.67*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Ou (psf)			

(* - assumed)

Mass (g)	Percent Passing		
	*	•	◇
970.0			
2"			
1.5"			
1"			
3/4"	100.0	100.0	100.0
3/8"	98.2	98.5	95.1
#4	97.7	98.1	94.6
#10	94.1	95.8	92.5
#20	52.2	63.2	61.5
#40	34.6	45.5	40.6
#100	13.1	18.4	13.6
#200	7.8	10.0	7.7

	*	•	◇
D ₆₀			
D ₃₀			
D ₁₀			
C _u			
C _c			

Remarks:

*2 mechanical
1 vacuum sweeper*

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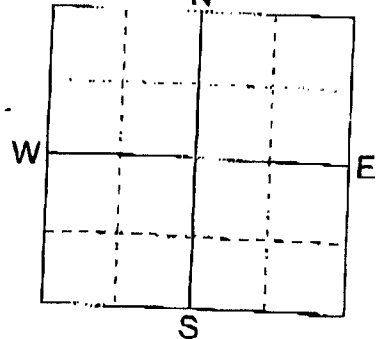
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P.O. BOX 187, BENSON, MN 56215
(320) 843-4109

SOIL TEST REPORT

FIELD	1	SAMPLE
COUNTY		
TWP		SECTION
QTR		ACRES
PREV CROP		



SUBMITTED FOR:
CITY OF ANDOVER

SUBMITTED BY:
NORTHERN TECHNOLOGIES INC
6588 141ST AVE NW
RAMSEY, MN 55305

NO1524

REF # 10658901
LAB # 11070
BOX # 1006

DATE SAMPLED

DATE RECEIVED

5/18/ 7

DATE REPORTED

5/22/07

NUTRIENT IN THE SOIL	INTERPRETATION				1ST CROP CHOICE	2ND CROP CHOICE	3RD CROP CHOICE
	V LOW	LOW	MED	HIGH			
YIELD GOAL					YIELD GOAL	YIELD GOAL	YIELD GOAL
ON NUTRIENT DEFICIENCY INDEX					ON NUTRIENT DEFICIENCY INDEX	ON NUTRIENT DEFICIENCY INDEX	ON NUTRIENT DEFICIENCY INDEX
NO					NO	NO	NO
PO					PO	PO	PO
CO					CO	CO	CO
CA					CA	CA	CA
Mg					Mg	Mg	Mg
SO					SO	SO	SO
CL					CL	CL	CL
Na					Na	Na	Na
NO ₃					NO ₃	NO ₃	NO ₃
NO ₂					NO ₂	NO ₂	NO ₂
PH					PH	PH	PH
EC					EC	EC	EC
ORP					ORP	ORP	ORP
TEMP					TEMP	TEMP	TEMP
MOISTURE					MOISTURE	MOISTURE	MOISTURE
...				

Total Phosphorus
199 ppm

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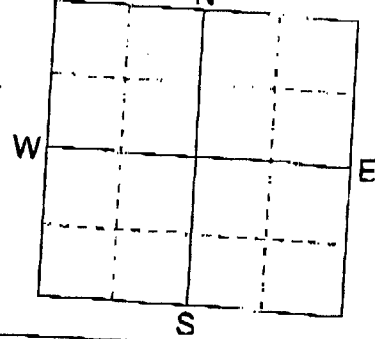
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P.O. BOX 107, BENSON, MN 54215
(320) 843-4109

SOIL TEST REPORT

FIELD	2	SAMPLE
COUNTY		
TWP		SECTION
QTR		ACRES
PREV CROP		



SUBMITTED FOR:

CITY OF ANDOVER

SUBMITTED BY:

NORTHERN TECHNOLOGIES INC NO1524
6588 L41ST AVE NW

RAMSEY, MN 55303

REF # 10658902
LAB # 11071

BOX # 1006

DATE SAMPLED

DATE RECEIVED

5/18/07

DATE REPORTED

5/22/07

NUTRIENT IN THE SOIL

INTERPRETATION

V. LOW LOW MED HIGH

1ST CROP CHOICE

2ND CROP CHOICE

3RD CROP CHOICE

YIELD GOAL

YIELD GOAL

YIELD GOAL

NUTRIENT IN THE SOIL	INTERPRETATION				1ST CROP CHOICE	2ND CROP CHOICE	3RD CROP CHOICE
	V. LOW	LOW	MED	HIGH			
Nitrogen							
Phosphorus							
Potassium							
Calcium							
Magnesium							
Sulfur							
Zinc							
Copper							
Manganese							
Iron							
Boron							
Molybdenum							
Chloride							
Fluoride							
Silica							
Aluminum							
Other							

Total Phosphorus
179 ppm

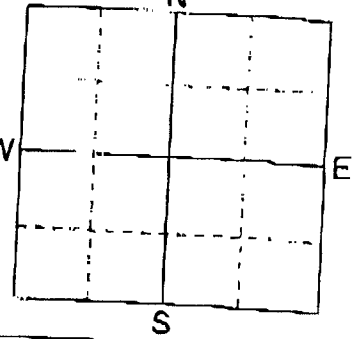
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(320) 843-4109

SOIL TEST REPORT

FIELD	3	SAMPLE
COUNTY		SECTION
TWP		ACRES
QTR		
PREV CROP		



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SUBMITTED FOR:

CITY OF ANDOVER

SUBMITTED BY:

NORTHERN TECHNOLOGIES INC
6588 141ST AVE NW
RAMSEY, MN 55303

REF # 10658903
LAB # 11072 BOX # 1006

DATE SAMPLED

DATE RECEIVED

5/18/07

DATE REPORTED

5/22/07

NUTRIENT IN THE SOIL	INTERPERHATATION				1ST CROP CHOICE	2ND CROP CHOICE	3RD CROP CHOICE
	V. LOW	LOW	MED	HIGH	YIELD GOAL	YIELD GOAL	YIELD GOAL
Nitrate-N							
Ammonia-N							
Total-N							
Phosphorus							
Potassium							
Calcium							
Magnesium							
Sulfur							
Zinc							
Copper							
Manganese							
Boron							
Molybdenum							
Iron							
Aluminum							
Organic Matter							
pH							

Total Phosphorus
268 ppm