

MUSKEGON RIVER WATER MONITORING PROGRAM

SITE INFORMATION/MACROINVERTEBRATE REPORT

FALL 2005

CID: 02-26-02
SID:
STOREID:
HUC: 04060102070030

<p>Stream Information</p> <p>Stream: Rosy Run</p> <p>Location: East of Newcosta Road between Two and Three Mile Roads</p> <p>Watershed: Muskegon River</p> <p>Subwatershed: Hardy Dam Pond</p>	<p>County: Mecosta Township: Aetna Latitude: N43 30.280 Longitude: W85 32.771</p> <p>TownshipNum: 13 TownshipDir: N Range: 10 RangeDir: W Section: 19 Quarter: NW QuarterQuarter</p> <p>Datum: GPS 300 Feet <input checked="" type="checkbox"/> Feet-other If not 300, why?</p>
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Collection Information

Date 0/4/2005
Time 12:40 PM 2:40 PM

Collectors
 Stephen Ross

Datasheet completed by:
 Stephen Ross

Identifications made by:
 Stephen Ross

Stream Conditions

Average Depth 0.3 ft
Air Temperature 80 F
Current Conditions
 Partly Cloudy
last storm: 9/28/2005

Excessive Silt

Substrate Embeddedness
 0-25 >50
 25-50 unsure

Fish/wildlife Observed
 raven, bluejay, titmouse, frogs, trout, minnows, water striders

<p>Group 1 - Sensitive</p> <p>Rare Common</p> <p><input type="checkbox"/> caddisfly larvae <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> hellgrammites <input type="checkbox"/></p> <p><input type="checkbox"/> mayfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> gilled snails <input type="checkbox"/></p> <p><input type="checkbox"/> stonefly nymphs <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> water penny <input type="checkbox"/></p> <p><input type="checkbox"/> water snipe fly <input type="checkbox"/></p>	<p>2-Somewhat Sensitive</p> <p>Rare Common</p> <p><input type="checkbox"/> alderfly larvae <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> beetle adults <input type="checkbox"/></p> <p><input type="checkbox"/> beetle larvae <input type="checkbox"/></p> <p><input type="checkbox"/> black fly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> clams <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> crane fly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> crayfish <input type="checkbox"/></p> <p><input type="checkbox"/> damselfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> dragonfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> net-spinning caddis <input type="checkbox"/></p> <p><input type="checkbox"/> scuds <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> sowbugs <input type="checkbox"/></p>	<p>Group 3-Tolerant</p> <p>Rare Common</p> <p><input checked="" type="checkbox"/> aquatic worm <input type="checkbox"/></p> <p><input type="checkbox"/> leeches <input type="checkbox"/></p> <p><input type="checkbox"/> midge larvae <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> pouch snails <input type="checkbox"/></p> <p><input type="checkbox"/> True Bugs <input type="checkbox"/></p> <p><input type="checkbox"/> Other True Flies <input type="checkbox"/></p>	<p>Stream Quality Score</p> <p>Group 1 Rare: 0 Common: 10.6</p> <p>Group 2 Rare: 6 Common: 3.2</p> <p>Group 3 Rare: 2.2 Common: 0</p> <p>Total: 22 Quality Score</p> <p style="text-align: center;">Fair</p>
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Number of jars 1 **Confidence Level** 1

MUSKEGON RIVER WATER MONITORING PROGRAM

SITE INFORMATION/MACROINVERTEBRATE REPORT

FALL 2005

CID: 02-25-01
SID:
STOREID:
HUC: 04060102070020

<p style="text-align: center;">Stream Information</p> <p>Stream: Ryan Creek</p> <p>Location: Off 180th Ave. by a picnic area</p> <p>Watershed: Muskegon River</p> <p>Subwatershed: Ryan/Mitchell Creek</p>	<p>County: Mecosta</p> <p>Township: Colfax</p> <p>TownshipNum: 15</p> <p>TownshipDir: N</p> <p>Range: 10</p> <p>RangeDir: W</p> <p>Section: 7</p> <p>Quarter: SW</p> <p>QuarterQuarter</p>	<p>Latitude: N43 42.258</p> <p>Longitude: W85 26.488</p> <p>Datum: GPS</p> <p>300 Feet <input checked="" type="checkbox"/></p> <p>Feet-other</p> <p>If not 300, why?</p>
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Collection Information	
Date	0/4/2005
Time	12:30 PM 1:20 PM
Collectors	
Bill	Burmeister
Nancy	Burmeister
Datasheet completed by:	
Nancy	Burmeister
Identifications made by:	
Nancy & Bill	Burmeister

Stream Conditions
Average Depth 1.5 ft
Air Temperature 80 F
Current Conditions partly cloudy, light breeze
last storm: 9/30/2005
Excessive Silt <input type="checkbox"/>
Substrate Embeddedness
0-25 <input checked="" type="checkbox"/> >50 <input type="checkbox"/>
25-50 <input type="checkbox"/> unsure <input type="checkbox"/>
Fish/wildlife Observed many small fish

<p style="text-align: center;">Group 1 - Sensitive</p> <p>Rare Common</p> <p><input checked="" type="checkbox"/> caddisfly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> hellgrammites <input type="checkbox"/></p> <p><input type="checkbox"/> mayfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> gilled snails <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> stonefly nymphs <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> water penny <input type="checkbox"/></p> <p><input type="checkbox"/> water snipe fly <input type="checkbox"/></p>	<p style="text-align: center;">2-Somewhat Sensitive</p> <p>Rare Common</p> <p><input type="checkbox"/> alderfly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> beetle adults <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> beetle larvae <input type="checkbox"/></p> <p><input type="checkbox"/> black fly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> clams <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> crane fly larvae <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> crayfish <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> damselfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> dragonfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> net-spinning caddis <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> scuds <input type="checkbox"/></p> <p><input type="checkbox"/> sowbugs <input type="checkbox"/></p>	<p style="text-align: center;">Group 3-Tolerant</p> <p>Rare Common</p> <p><input checked="" type="checkbox"/> aquatic worm <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> leeches <input type="checkbox"/></p> <p><input type="checkbox"/> midge larvae <input type="checkbox"/></p> <p><input type="checkbox"/> pouch snails <input type="checkbox"/></p> <p><input type="checkbox"/> True Bugs <input type="checkbox"/></p> <p><input type="checkbox"/> Other True Flies <input type="checkbox"/></p>
<p>Stream Quality Score</p> <p>Group 1</p> <p>Rare: 15</p> <p>Common: 5.3</p> <p>Group 2</p> <p>Rare: 12</p> <p>Common: 3.2</p> <p>Group 3</p> <p>Rare: 2.2</p> <p>Common: 0</p> <p>Total: 37.7</p> <p>Quality Score</p> <p style="text-align: center; font-size: 1.2em;">Good</p>		

Number of jars 2 **Confidence Level** 3

MUSKEGON RIVER WATER MONITORING PROGRAM

SITE INFORMATION/MACROINVERTEBRATE REPORT

FALL 2005

CID: 02-25-02
SID:
STOREID:
HUC: 04060102070020

<p style="text-align: center;">Stream Information</p> <p>Stream: Spring Creek</p> <p>Location: Rogers Heights Public Access</p> <p>Watershed: Muskegon River</p> <p>Subwatershed: Ryan/Mitchell Creek</p>	<p>County: Mecosta Township: Mecosta</p> <p>TownshipNum: 14 TownshipDir: N Range: 10 RangeDir: W Section: 11 Quarter: NE QuarterQuarter</p> <p>Latitude: N43 37.478 Longitude: W85 28.296 Datum: GPS</p> <p>300 Feet <input checked="" type="checkbox"/> Feet-other If not 300, why?</p>
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Collection Information
Date 0/2/2005
Time 11:00 AM 1:00 PM

Collectors
 Jeff Cauffman
 Lisa Dysard

Datasheet completed by:
 Jeff Cauffman

Identifications made by:
 Jeff Cauffman & Lisa Dysard

Stream Conditions

Average Depth 1.5 ft

Air Temperature 70 F

Current Conditions
 Hazy/Sun

last storm: 9/30/2005

Excessive Silt

Substrate Embeddedness
 0-25 >50
 25-50 unsure

Fish/wildlife Observed
 Minnows, great blue heron

<p style="text-align: center;">Group 1 - Sensitive</p> <p>Rare Common</p> <p><input type="checkbox"/> caddisfly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> hellgrammites <input type="checkbox"/></p> <p><input type="checkbox"/> mayfly nymphs <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> gilled snails <input type="checkbox"/></p> <p><input type="checkbox"/> stonefly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> water penny <input type="checkbox"/></p> <p><input type="checkbox"/> water snipe fly <input type="checkbox"/></p>	<p style="text-align: center;">2-Somewhat Sensitive</p> <p>Rare Common</p> <p><input checked="" type="checkbox"/> alderfly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> beetle adults <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> beetle larvae <input type="checkbox"/></p> <p><input type="checkbox"/> black fly larvae <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> clams <input type="checkbox"/></p> <p><input type="checkbox"/> crane fly larvae <input type="checkbox"/></p> <p><input type="checkbox"/> crayfish <input type="checkbox"/></p> <p><input type="checkbox"/> damselfly nymphs <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> dragonfly nymphs <input type="checkbox"/></p> <p><input type="checkbox"/> net-spinning caddis <input type="checkbox"/></p> <p><input type="checkbox"/> scuds <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> sowbugs <input checked="" type="checkbox"/></p>	<p style="text-align: center;">Group 3-Tolerant</p> <p>Rare Common</p> <p><input type="checkbox"/> aquatic worm <input type="checkbox"/></p> <p><input type="checkbox"/> leeches <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> midge larvae <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> pouch snails <input type="checkbox"/></p> <p><input type="checkbox"/> True Bugs <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> Other True Flies <input type="checkbox"/></p>	<p style="text-align: center;">Stream Quality Score</p> <p>Group 1 Rare: 5 Common: 0</p> <p>Group 2 Rare: 9 Common: 9.6</p> <p>Group 3 Rare: 3.3 Common: 1</p> <p>Total: 27.9 Quality Score</p> <p style="text-align: center;">Fair</p>
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Number of jars 1 **Confidence Level** 1

MUSKEGON RIVER WATER MONITORING PROGRAM

SITE INFORMATION/MACROINVERTEBRATE REPORT

FALL 2005

CID: 02-26-01
SID:
STOREID:
HUC: 04060102070030

Collection Information
Date 1/30/2005
Time 1:30 PM 3:40 PM
Collectors
 Stephen Ross
 Bill Burmeister
 Nancy Burmeister
Datasheet completed by:
 Stephen Ross
Identifications made by:
 Stephen Ross

<p>Stream Information</p> <p>Stream: Betts Creek</p> <p>Location: West of 220th Ave</p> <p>Watershed: Muskegon River</p> <p>Subwatershed: Hardy Dam Pond</p>	<p>County: Mecosta</p> <p>Township: Mecosta</p> <p>TownshipNum: 14</p> <p>TownshipDir: N</p> <p>Range: 10</p> <p>RangeDir: W</p> <p>Section: 20</p> <p>Quarter: NE</p> <p>QuarterQuarter: SE</p>	<p>Latitude: N43 35.689</p> <p>Longitude: W85 31.607</p> <p>Datum: GPS</p> <p>300 Feet <input checked="" type="checkbox"/></p> <p>Feet-other</p> <p>If not 300, why?</p>
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Stream Conditions

Average Depth 5 ft

Air Temperature 70 F

Current Conditions
 Clear, Windy

last storm: 9/28/2005

Excessive Silt

Substrate Embeddedness
 0-25 >50
 25-50 unsure

Fish/wildlife Observed
 deer, woodpecker, cottus sp.

Group 1 - Sensitive		2-Somewhat Sensitive		Group 3-Tolerant	
Rare	Common	Rare	Common	Rare	Common
<input type="checkbox"/> caddisfly larvae	<input checked="" type="checkbox"/>	<input type="checkbox"/> alderfly larvae	<input type="checkbox"/>	<input type="checkbox"/> aquatic worm	<input type="checkbox"/>
<input checked="" type="checkbox"/> hellgrammites	<input type="checkbox"/>	<input type="checkbox"/> beetle adults	<input type="checkbox"/>	<input type="checkbox"/> leeches	<input type="checkbox"/>
<input checked="" type="checkbox"/> mayfly nymphs	<input type="checkbox"/>	<input type="checkbox"/> beetle larvae	<input type="checkbox"/>	<input type="checkbox"/> midge larvae	<input type="checkbox"/>
<input type="checkbox"/> gilled snails	<input type="checkbox"/>	<input type="checkbox"/> black fly larvae	<input type="checkbox"/>	<input type="checkbox"/> pouch snails	<input type="checkbox"/>
<input type="checkbox"/> stonefly nymphs	<input checked="" type="checkbox"/>	<input type="checkbox"/> clams	<input type="checkbox"/>	<input type="checkbox"/> True Bugs	<input type="checkbox"/>
<input type="checkbox"/> water penny	<input type="checkbox"/>	<input checked="" type="checkbox"/> crane fly larvae	<input type="checkbox"/>	<input type="checkbox"/> Other True Flies	<input type="checkbox"/>
<input type="checkbox"/> water snipe fly	<input type="checkbox"/>	<input type="checkbox"/> crayfish	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> damselfly nymphs	<input type="checkbox"/>		
		<input checked="" type="checkbox"/> dragonfly nymphs	<input type="checkbox"/>		
		<input type="checkbox"/> net-spinning caddis	<input type="checkbox"/>		
		<input type="checkbox"/> scuds	<input checked="" type="checkbox"/>		
		<input type="checkbox"/> sowbugs	<input type="checkbox"/>		

Stream Quality Score

Group 1
 Rare: 10
 Common: 10.6

Group 2
 Rare: 9
 Common: 3.2

Group 3
 Rare: 0
 Common: 0

Total: 32.8
Quality Score

Fair

Number of jars 1 **Confidence Level** 1