



SCI SUMMARY FORM

Work Order:	2013 02 028	
Collection Date:	02/19/2013	
Sample Location:	LWD	
Sample ID:	201302028	

Macroinvertebrate Data	Results	Qualifier Code
Habitat Score	108	
Total Taxa (avg.)*	30	A
% Very Tolerant	4.0	A
% Tanytarsini	6.45	A
Clinger Taxa	10.0	A
% Filterers	2.8	A
EPT Taxa	3.0	A
Sensitive Taxa	3.35	A
% Dominant Taxa	8.4	A
Long-lived Taxa	10.0	A
Trichoptera Taxa	7.15	A
SWDI	4.151	A
Final SCI Score	67.5	A

Water Quality Parameter	Code	Units
Field Readings Depth	0.25	meters
Temperature	14.3	° celcius
Dissolved Oxygen	9.3	mg/L
pH	7.4	units
Conductivity	278	µS/cm
Velocity **	0.49 J	ft/sec
Water Clarity	Clear	n/a
Water Color	Clear	n/a
Secchi Depth	0.5}	meters
Total Depth	0.5	meters

*Average of total taxa from set A and total taxa from set B

* **Velocity is approximate and does not represent average velocity of the stream cross section.

Macroinvertebrate Stream Analysis Summary - Collapsed

Program: LW

Sample ID: 2013020280101

Total Species: 31

Location: LWD *set A*

Date Analysis Complete: 12/31/2013

Total # Individuals: 146

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of 72

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

E/P/T Ratio: 24.7%

Biotic Index Summary

Class 1 # of Species:	5	16.1%	Class 1 # of Individuals:	31	21.2%
Class 2 # of Species:	3	9.7%	Class 2 # of Individuals:	7	4.8%
Class 3 # of Species:	1	3.2%	Class 3 # of Individuals:	1	0.7%
Class 4 # of Species:	1	3.2%	Class 4 # of Individuals:	7	4.8%
Class 5 # of Species:	21	67.7%	Class 5 # of Individuals:	100	68.5%

Taxa Summary

Class HEXAPODA:	85	58.2%	Order VENEROIDA:	7	4.8%	Family HYDROPSYCHIDAE:	4	2.7%
Class GASTROPODA:	22	15.1%	Order TRICHOPTERA:	32	21.9%	Family ARRENURIDAE:	26	17.8%
Class BIVALVIA:	7	4.8%	Order ODONATA:	15	10.3%	Family BAETIDAE:	3	2.1%
Class ARACHNIDA:	32	21.9%	Order NEOTAENIOGLOSSA:	19	13.0%	Family CHIRONOMIDAE:	27	18.5%
			Order EPHEMEROPTERA:	4	2.7%	Family COENAGRIONIDAE:	12	8.2%
			Order DIPTERA:	27	18.5%	Family CORBICULIDAE:	7	4.8%
			Order COLEOPTERA:	7	4.8%	Family ELMIDAE:	7	4.8%
			Order BASOMMATOPHORA:	3	2.1%	Family ANCYLIDAE:	2	1.4%
			Order ACARIFORMES:	32	21.9%	Family HYDROBIIDAE:	19	13.0%
						Family UNIONICOLIDAE:	4	2.7%
						Family HYDROPTILIDAE:	26	17.8%
						Family LEBERTIIDAE:	1	0.7%
						Family LEPTOCERIDAE:	2	1.4%
						Family LIBELLULIDAE:	3	2.1%
						Family LIMNESIIDAE:	1	0.7%
						Family PHYSIDAE:	1	0.7%
						Family HEPTAGENIIDAE:	1	0.7%

Functional Feeding Groups

Sensitivity Level

Life Cycle

Habit

Shredder:	8	5.5%	Very Tolerant:	13	8.9%	N/A:	139	95.2%	Sprawler:	5	3.4%
Scraper:	27	18.5%	Sensitive:	1	0.7%	Long-Lived:	7	4.8%	N/A:	71	48.6%
Predator:	58	39.7%	N/A:	132	90.4%				Clinger:	36	24.7%
Piercer:	22	15.1%							Climbers:	32	21.9%
Gatherer:	16	11.0%							Burrowers:	1	0.7%
Filterer:	15	10.3%							Bottom Dweller:	1	0.7%

Metric Summary

	Raw Data	Score		Raw Data	Score
SCI % Very Tolerant:	9	4.4	SCI Sensitive Taxa:	1	1.1
SCI % Tanytarsini:	5	5.4	SCI % Dominance:	18	8.2
SCI Clinger Taxa:	12	10.0	SCI Long-Lived Taxa:	7	10.0
SCI % Filterer:	10	2.3	SCI Trichoptera Taxa:	6	8.6
SCI Ephemeroptera Taxa:	2	4.0	SCI Total Taxa:	31	6.0

* Standing Crop only valid for MHD and PDredge Sampling Methods.

Macroinvertebrate Stream Bench Sheet - Collapsed

Program: LW

Location: LWD set A

Sample Date: 2/19/2013

Sampling Method: DframeNet-SCI

Sample ID: 2013020280101

Date Analysis Complete: 12/31/2013

No of Aliquot Used: 0.375 out of 72

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Fair

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
ARTHROPODA	ARACHNIDA	ACARIFORMES	ARRENURIDAE	Z/A	Arrenurus sp.	5	26
ARTHROPODA	ARACHNIDA	ACARIFORMES	LEBERTIIDAE	Z/A	Lebertia sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	LIMNESIIDAE	Z/A	Limnesia sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	UNIONICOLIDAE	Z/A	Neumania sp.	5	3
ARTHROPODA	ARACHNIDA	ACARIFORMES	UNIONICOLIDAE	Z/A	Unionicola sp.	5	1
ARTHROPODA	HEXAPODA	COLEOPTERA	ELMIDAE	Z/A	Stenelmis sp.	4	7
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Dicrotendipes neomodestus	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Paracladopelma nereis	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedium flavum	5	8
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus cf. daviesi	5	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus sp.G	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Rheotanytarsus exiguus grp.	1	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. A	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. C	5	3
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	ORTHOCLADIINAE	SUBFAMILY: ORTHOCLADIINAE	1	8
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	TANYPODINAE	Ablabesmyia mallochi	1	1
ARTHROPODA	HEXAPODA	EPHEMEROPTERA	BAETIDAE	Z/A	FAMILY: BAETIDAE	5	3
ARTHROPODA	HEXAPODA	EPHEMEROPTERA	HEPTAGENIIDAE	Z/A	Stenacron interpunctatum	2	1
ARTHROPODA	HEXAPODA	ODONATA	COENAGRIONIDAE	Z/A	Enallagma sp.	5	1
ARTHROPODA	HEXAPODA	ODONATA	COENAGRIONIDAE	Z/A	Ischnura sp.	5	11
ARTHROPODA	HEXAPODA	ODONATA	LIBELLULIDAE	Z/A	FAMILY: LIBELLULIDAE	5	3
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPSYCHIDAE	Z/A	Cheumatopsyche sp.	2	4
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Hydroptila sp.	1	1
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Neotrichia sp.	5	4
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Oxyethira sp.	1	20
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Stactobiella sp.	5	1
ARTHROPODA	HEXAPODA	TRICHOPTERA	LEPTOCERIDAE	Z/A	Oecetis sp.	2	2

Macroinvertebrate Stream Bench Sheet - Collapsed

Program: LW

Sample ID: 2013020280101

Location: LWD set A

Date Analysis Complete: 12/31/2013

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of 72

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Fair

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
MOLLUSCA	BIVALVIA	VENEROIDA	CORBICULIDAE	Z/A	Corbicula sp.	5	7
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	ANCYLIDAE	Z/A	FAMILY: ANCYLIDAE	5	2
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	PHYSIDAE	Z/A	FAMILY: PHYSIDAE	3	1
MOLLUSCA	GASTROPODA	NEOTAENIOGLOSSA	HYDROBIIDAE	Z/A	FAMILY: HYDROBIIDAE	5	19

Sample ID: 2013020280101

SCI Score	67	F
# EPT Taxa	8	F
SW Diversity Index	4.068	F
HI Score	7	F
Total # Species	31	F

Macroinvertebrate Stream Analysis Summary - Raw

Program: LW

Sample ID: 2013020280101

Total Species: 35

Location: LWD *set A*

Date Analysis Complete: 12/31/2013

Total # Individuals: 146

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of 72

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

E/P/T Ratio: 24.7%

Biotic Index Summary

Class 1 # of Species:	5	14.3%	Class 1 # of Individuals:	31	21.2%
Class 2 # of Species:	3	8.6%	Class 2 # of Individuals:	5	3.4%
Class 3 # of Species:	1	2.9%	Class 3 # of Individuals:	1	0.7%
Class 4 # of Species:	1	2.9%	Class 4 # of Individuals:	7	4.8%
Class 5 # of Species:	25	71.4%	Class 5 # of Individuals:	102	69.9%

Taxa Summary

Class HEXAPODA:	85	58.2%	Order VENEROIDA:	7	4.8%	Family HYDROPSYCHIDAE:	4	2.7%
Class GASTROPODA:	22	15.1%	Order TRICHOPTERA:	32	21.9%	Family ARRENURIDAE:	25	17.1%
Class BIVALVIA:	7	4.8%	Order ODONATA:	15	10.3%	Family BAETIDAE:	3	2.1%
Class ARACHNIDA:	32	21.9%	Order NEOTAENIOGLOSSA:	19	13.0%	Family CHIRONOMIDAE:	27	18.5%
			Order EPHEMEROPTERA:	4	2.7%	Family COENAGRIONIDAE:	12	8.2%
			Order DIPTERA:	27	18.5%	Family CORBICULIDAE:	7	4.8%
			Order COLEOPTERA:	7	4.8%	Family ELMIDAE:	7	4.8%
			Order BASOMMATOPHORA:	3	2.1%	Family ANCYLIDAE:	2	1.4%
			Order ACARIFORMES:	32	21.9%	Family HYDROBIIDAE:	19	13.0%
						Family Z/A:	1	0.7%
						Family HYDROPTILIDAE:	26	17.8%
						Family LEBERTIIDAE:	1	0.7%
						Family LEPTOCERIDAE:	2	1.4%
						Family LIBELLULIDAE:	3	2.1%
						Family LIMNESIIDAE:	1	0.7%
						Family PHYSIDAE:	1	0.7%
						Family UNIONICOLIDAE:	4	2.7%
						Family HEPTAGENIIDAE:	1	0.7%

UNCOLLAPSED RAW DATA
PER SOP

Functional Feeding Groups

Shredder:	8	5.5%
Scraper:	27	18.5%
Predator:	58	39.7%
Piercer:	22	15.1%
Gatherer:	16	11.0%
Filterer:	15	10.3%

Sensitivity Level

Very Tolerant:	13	8.9%
Sensitive:	3	2.1%
N/A:	130	89.0%

Life Cycle

N/A:	139	95.2%
Long-Lived:	7	4.8%

Habit

Sprawler:	5	3.4%
N/A:	71	48.6%
Clinger:	36	24.7%
Climbers:	32	21.9%
Burrowers:	1	0.7%
Bottom Dweller:	1	0.7%

Metric Summary

	Raw Data	Score		Raw Data	Score
SCI % Very Tolerant:	9	4.4	SCI Sensitive Taxa:	3	3.3
SCI % Tanytarsini:	5	5.4	SCI % Dominance:	17	8.4
SCI Clinger Taxa:	14	10.0	SCI Long-Lived Taxa:	7	10.0
SCI % Filterer:	10	2.3	SCI Trichoptera Taxa:	7	10.0
SCI Ephemeroptera Taxa:	2	4.0	SCI Total Taxa:	35	7.6

* Standing Crop only valid for MHD and PDredge Sampling Methods.

Macroinvertebrate Stream Bench Sheet - Raw

Program: LW

Sample ID: 2013020280101

Location: LWD 5 et A

Date Analysis Complete: 12/31/2013

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of 72

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxonomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Good

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
ARTHROPODA	ARACHNIDA	ACARIFORMES	ARRENURIDAE	Z/A	Arrenurus sp.	5	25
ARTHROPODA	ARACHNIDA	ACARIFORMES	LEBERTIIDAE	Z/A	Lebertia sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	LIMNESIIDAE	Z/A	Limnesia sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	UNIONICOLIDAE	Z/A	Neumania sp.	5	3
ARTHROPODA	ARACHNIDA	ACARIFORMES	UNIONICOLIDAE	Z/A	Unionicola sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	Z/A	Z/A	ORDER: ACARIFORMES	5	1
ARTHROPODA	HEXAPODA	COLEOPTERA	ELMIDAE	Z/A	Stenelmis sp.	4	7
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Dicrotendipes neomodestus	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Paracladopelma nereis	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedilum flavum	5	8
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus cf. daviesi	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus sp.	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus sp.G	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Rheotanytarsus exiguus grp.	1	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp.	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. A	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. C	5	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	ORTHOCLADIINAE	SUBFAMILY: ORTHOCLADIINAE	1	8
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	TANYPODINAE	Ablabesmyia mallochi	1	1
ARTHROPODA	HEXAPODA	EPHEMEROPTERA	BAETIDAE	Z/A	FAMILY: BAETIDAE	5	3
ARTHROPODA	HEXAPODA	EPHEMEROPTERA	HEPTAGENIIDAE	Z/A	Stenacron interpunctatum	2	1
ARTHROPODA	HEXAPODA	ODONATA	COENAGRIONIDAE	Z/A	Enallagma sp.	5	1
ARTHROPODA	HEXAPODA	ODONATA	COENAGRIONIDAE	Z/A	Ischnura sp.	5	11
ARTHROPODA	HEXAPODA	ODONATA	LIBELLULIDAE	Z/A	FAMILY: LIBELLULIDAE	5	3
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPSYCHIDAE	Z/A	Cheumatopsyche sp.	2	2
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPSYCHIDAE	Z/A	FAMILY: HYDROPSYCHIDAE	5	2
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Hydroptila sp.	1	1

UNCOLLAPSED RAW DATA
PER SOP

Macroinvertebrate Stream Bench Sheet - Raw

Program: LW

Sample ID: 2013020280101

Location: LWD set A

Date Analysis Complete: 12/31/2013

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of 72

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Good

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Neotrichia sp.	5	4
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Oxyethira sp.	1	20
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Stactobiella sp.	5	1
ARTHROPODA	HEXAPODA	TRICHOPTERA	LEPTOCERIDAE	Z/A	Oecetis sp.	2	2
MOLLUSCA	BIVALVIA	VENEROIDA	CORBICULIDAE	Z/A	Corbicula sp.	5	7
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	ANCYLIDAE	Z/A	FAMILY: ANCYLIDAE	5	2
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	PHYSIDAE	Z/A	FAMILY: PHYSIDAE	3	1
MOLLUSCA	GASTROPODA	NEOTAENIOGLOSSA	HYDROBIIDAE	Z/A	FAMILY: HYDROBIIDAE	5	19

Sample ID: 2013020280101

SCI Score	73	F
# EPT Taxa	9	F
SW Diversity Index	4.17	F
HI Score	7	F
Total # Species	35	F

UNCOLLAPSED RAW DATA
PER SOP

QC- 1/3/14
EB

Macroinvertebrate Stream Analysis Summary - Collapsed

Program: LW

Sample ID: 2013020280102

Total Species: 29

Location: LWD 5248

Date Analysis Complete: 12/31/2013

Total # Individuals: 144

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

E/P/T Ratio: 29.2%

Biotic Index Summary

Class 1 # of Species:	5	17.2%	Class 1 # of Individuals:	42	29.2%
Class 2 # of Species:	2	6.9%	Class 2 # of Individuals:	5	3.5%
Class 3 # of Species:	2	6.9%	Class 3 # of Individuals:	3	2.1%
Class 4 # of Species:	4	13.8%	Class 4 # of Individuals:	12	8.3%
Class 5 # of Species:	16	55.2%	Class 5 # of Individuals:	82	56.9%

Taxa Summary

Class HEXAPODA:	105	72.9%	Order VENEROIDA:	7	4.9%	Family HYDROBIIDAE:	15	10.4%
Class GASTROPODA:	21	14.6%	Order TRICHOPTERA:	41	28.5%	Family ARRENURIDAE:	8	5.6%
Class CRUSTACEA:	1	0.7%	Order ODONATA:	6	4.2%	Family BAETIDAE:	1	0.7%
Class BIVALVIA:	7	4.9%	Order NEOTAENIOGLOSSA:	15	10.4%	Family CHIRONOMIDAE:	48	33.3%
Class ARACHNIDA:	10	6.9%	Order HETEROPTERA:	1	0.7%	Family COENAGRIONIDAE:	6	4.2%
			Order EPHEMEROPTERA:	1	0.7%	Family CORBICULIDAE:	7	4.9%
			Order DIPTERA:	48	33.3%	Family ANCYLIDAE:	2	1.4%
			Order COLEOPTERA:	8	5.6%	Family GERRIDAE:	1	0.7%
			Order BASOMMATOPHORA:	6	4.2%	Family UNIONICOLIDAE:	1	0.7%
			Order AMPHIPODA:	1	0.7%	Family HYDROPSYCHIDAE:	5	3.5%
			Order ACARIFORMES:	10	6.9%	Family HYDROPTILIDAE:	36	25.0%
						Family LEBERTIIDAE:	1	0.7%
						Family PHYSIDAE:	1	0.7%
						Family PLANORBIDAE:	3	2.1%
						Family TALITRIDAE:	1	0.7%
						Family ELMIDAE:	8	5.6%

Functional Feeding Groups

Sensitivity Level

Life Cycle

Habit

Shredder:	20	13.9%	Very Tolerant:	19	13.2%	N/A:	137	95.1%	Sprawler:	4	2.8%
Scraper:	21	14.6%	Sensitive:	5	3.5%	Long-Lived:	7	4.9%	Skaters:	1	0.7%
Predator:	24	16.7%	N/A:	120	83.3%				N/A:	49	34.0%
Piercer:	36	25.0%							Clinger:	55	38.2%
Gatherer:	23	16.0%							Climbers:	29	20.1%
Filterer:	20	13.9%							Burrowers:	5	3.5%
									Bottom Dweller:	1	0.7%

Metric Summary

	Raw Data	Score		Raw Data	Score
SCI % Very Tolerant:	13	3.6	SCI Sensitive Taxa:	5	5.6
SCI % Tanytarsini:	11	7.5	SCI % Dominance:	16	8.6
SCI Clinger Taxa:	12	10.0	SCI Long-Lived Taxa:	7	10.0
SCI % Filterer:	14	3.3	SCI Trichoptera Taxa:	4	5.7
SCI Ephemeroptera Taxa:	1	2.0	SCI Total Taxa:	29	5.2

* Standing Crop only valid for MHD and PDredge Sampling Methods.

Macroinvertebrate Stream Bench Sheet - Collapsed

Program: LW

Sample ID: 2013020280102

Location: LWD set B

Date Analysis Complete: 12/31/2013

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Fair

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
ARTHROPODA	ARACHNIDA	ACARIFORMES	ARRENURIDAE	Z/A	Arrenurus sp.	5	8
ARTHROPODA	ARACHNIDA	ACARIFORMES	LEBERTIIDAE	Z/A	Lebertia sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	UNIONICOLIDAE	Z/A	Neumania sp.	5	1
ARTHROPODA	CRUSTACEA	AMPHIPODA	TALITRIDAE	Z/A	Hyaella azteca	5	1
ARTHROPODA	HEXAPODA	COLEOPTERA	ELMIDAE	Z/A	Dubiraphia sp.	4	2
ARTHROPODA	HEXAPODA	COLEOPTERA	ELMIDAE	Z/A	Stenelmis sp.	4	6
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Dicrotendipes neomodestus	5	5
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedium flavum	5	13
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedium halterale grp.	2	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedium illinoense grp.	2	4
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedium scalaenum grp.	3	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus cf. daviesi	5	8
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. A	5	7
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. C	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	ORTHOCLADIINAE	SUBFAMILY: ORTHOCLADIINAE	1	3
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	TANYPODINAE	Ablabesmyia mallochi	1	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	TANYPODINAE	Pentaneura inconspicua	1	2
ARTHROPODA	HEXAPODA	EPHEMEROPTERA	BAETIDAE	Z/A	FAMILY: BAETIDAE	5	1
ARTHROPODA	HEXAPODA	HETEROPTERA	GERRIDAE	Z/A	FAMILY: GERRIDAE	4	1
ARTHROPODA	HEXAPODA	ODONATA	COENAGRIONIDAE	Z/A	Ischnura sp.	5	6
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPSYCHIDAE	Z/A	FAMILY: HYDROPSYCHIDAE	5	5
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Hydroptila sp.	1	12
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Oxyethira sp.	1	23
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Stactobiella sp.	5	1
MOLLUSCA	BIVALVIA	VENEROIDA	CORBICULIDAE	Z/A	Corbicula sp.	5	7
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	ANCYLIDAE	Z/A	FAMILY: ANCYLIDAE	5	2
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	PHYSIDAE	Z/A	FAMILY: PHYSIDAE	3	1

Macroinvertebrate Stream Bench Sheet - Collapsed

Program: LW

Sample ID: 2013020280102

Location: LWD 5078

Date Analysis Complete: 12/31/2013

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Fair

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	PLANORBIDAE	Z/A	FAMILY: PLANORBIDAE	4	3
MOLLUSCA	GASTROPODA	NEOTAENIOGLOSSA	HYDROBIIDAE	Z/A	FAMILY: HYDROBIIDAE	5	15

Sample ID: 2013020280102

SCI Score	68	F
# EPT Taxa	5	F
SW Diversity Index	4.234	F
HI Score	8	F
Total # Species	29	F

Macroinvertebrate Stream Analysis Summary - Raw

Program: LW

Sample ID: 2013020280102

Total Species: 32

Location: LWD *setB*

Date Analysis Complete: 12/31/2013

Total # Individuals: 144

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

E/P/T Ratio: 29.2%

Biotic Index Summary

Class 1 # of Species:	5	15.6%	Class 1 # of Individuals:	42	29.2%
Class 2 # of Species:	2	6.3%	Class 2 # of Individuals:	5	3.5%
Class 3 # of Species:	2	6.3%	Class 3 # of Individuals:	3	2.1%
Class 4 # of Species:	4	12.5%	Class 4 # of Individuals:	12	8.3%
Class 5 # of Species:	19	59.4%	Class 5 # of Individuals:	82	56.9%

Taxa Summary

Class HEXAPODA:	105	72.9%	Order VENEROIDA:	7	4.9%	Family HYDROPSYCHIDAE:	5	3.5%
Class GASTROPODA:	21	14.6%	Order TRICHOPTERA:	41	28.5%	Family ARRENURIDAE:	8	5.6%
Class CRUSTACEA:	1	0.7%	Order ODONATA:	6	4.2%	Family BAETIDAE:	1	0.7%
Class BIVALVIA:	7	4.9%	Order NEOTAENIOGLOSSA:	15	10.4%	Family CHIRONOMIDAE:	48	33.3%
Class ARACHNIDA:	10	6.9%	Order HETEROPTERA:	1	0.7%	Family COENAGRIONIDAE:	4	2.8%
			Order EPHEMEROPTERA:	1	0.7%	Family CORBICULIDAE:	7	4.9%
			Order DIPTERA:	48	33.3%	Family ELMIDAE:	8	5.6%
			Order COLEOPTERA:	8	5.6%	Family ANCYLIDAE:	2	1.4%
			Order BASOMMATOPHORA:	6	4.2%	Family HYDROBIIDAE:	15	10.4%
			Order AMPHIPODA:	1	0.7%	Family Z/A:	2	1.4%
			Order ACARIFORMES:	10	6.9%	Family HYDROPTILIDAE:	36	25.0%
						Family LEBERTIIDAE:	1	0.7%
						Family PHYSIDAE:	1	0.7%
						Family PLANORBIDAE:	3	2.1%
						Family TALITRIDAE:	1	0.7%
						Family UNIONICOLIDAE:	1	0.7%
						Family GERRIDAE:	1	0.7%

UNCOLLAPSED RAW DATA
PER SOP

Functional Feeding Groups

Sensitivity Level

Life Cycle

Habit

Shredder:	20	13.9%	Very Tolerant:	15	10.4%	N/A:	137	95.1%	Sprawler:	4	2.8%
Scraper:	21	14.6%	Sensitive:	5	3.5%	Long-Lived:	7	4.9%	Skaters:	1	0.7%
Predator:	24	16.7%	N/A:	124	86.1%				N/A:	51	35.4%
Piercer:	36	25.0%							Clinger:	55	38.2%
Gatherer:	23	16.0%							Climbers:	27	18.8%
Filterer:	20	13.9%							Burrowers:	5	3.5%
									Bottom Dweller:	1	0.7%

Metric Summary

	Raw Data	Score		Raw Data	Score
SCI % Very Tolerant:	10	4.2	SCI Sensitive Taxa:	5	5.6
SCI % Tanytarsini:	11	7.5	SCI % Dominance:	16	8.6
SCI Clinger Taxa:	12	10.0	SCI Long-Lived Taxa:	7	10.0
SCI % Filterer:	14	3.3	SCI Trichoptera Taxa:	4	5.7
SCI Ephemeroptera Taxa:	1	2.0	SCI Total Taxa:	32	6.4

* Standing Crop only valid for MHD and PDredge Sampling Methods.

Macroinvertebrate Stream Bench Sheet - Raw

Program: LW

Location: LWD setB

Sample Date: 2/19/2013

Sampling Method: DframeNet-SCI

Sample ID: 2013020280102

Date Analysis Complete: 12/31/2013

No of Aliquot Used: 0.375 out of

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxonomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Fair

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
ARTHROPODA	ARACHNIDA	ACARIFORMES	ARRENURIDAE	Z/A	Arrenurus sp.	5	8
ARTHROPODA	ARACHNIDA	ACARIFORMES	LEBERTIIDAE	Z/A	Lebertia sp.	5	1
ARTHROPODA	ARACHNIDA	ACARIFORMES	UNIONICOLIDAE	Z/A	Neumania sp.	5	1
ARTHROPODA	CRUSTACEA	AMPHIPODA	TALITRIDAE	Z/A	Hyaella azteca	5	1
ARTHROPODA	HEXAPODA	COLEOPTERA	ELMIDAE	Z/A	Dubiraphia sp.	4	2
ARTHROPODA	HEXAPODA	COLEOPTERA	ELMIDAE	Z/A	Stenelmis sp.	4	6
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Dicrotendipes neomodestus	5	3
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Dicrotendipes sp.	5	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedilum flavum	5	13
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedilum halterale grp.	2	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedilum illinoense grp.	2	4
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - CHIRONOMINI	Polypedilum scalaenum grp.	3	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus cf. daviesi	5	7
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Cladotanytarsus sp.	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. A	5	7
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	C - TANYTARSINI	Tanytarsus sp. C	5	1
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	ORTHOCLADIINAE	SUBFAMILY: ORTHOCLADIINAE	1	3
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	TANYPODINAE	Ablabesmyia mallochi	1	2
ARTHROPODA	HEXAPODA	DIPTERA	CHIRONOMIDAE	TANYPODINAE	Pentaneura inconspicua	1	2
ARTHROPODA	HEXAPODA	EPHEMEROPTERA	BAETIDAE	Z/A	FAMILY: BAETIDAE	5	1
ARTHROPODA	HEXAPODA	HETEROPTERA	GERRIDAE	Z/A	FAMILY: GERRIDAE	4	1
ARTHROPODA	HEXAPODA	ODONATA	COENAGRIONIDAE	Z/A	Ischnura sp.	5	4
ARTHROPODA	HEXAPODA	ODONATA	Z/A	Z/A	ORDER: ODONATA	5	2
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPSYCHIDAE	Z/A	FAMILY: HYDROPSYCHIDAE	5	5
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Hydroptila sp.	1	12
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Oxyethira sp.	1	23
ARTHROPODA	HEXAPODA	TRICHOPTERA	HYDROPTILIDAE	Z/A	Stactobiella sp.	5	1

UNCOLLAPSED RAW DATA
PER SOP

Macroinvertebrate Stream Bench Sheet - Raw

Program: LW

Sample ID: 2013020280102

Location: LWD *set B*

Date Analysis Complete: 12/31/2013

Sample Date: 2/19/2013

No of Aliquot Used: 0.375 out of

Sampling Method: DframeNet-SCI

Method Reference: FDEP Field SOPs 7000, LT7000

(1) (2)

Taxomist: EFJ JB

Sort Tech: EFJ JD

Mount Tech: EFJ

Collected By: efj, mac

Metric: Fair

Phylum	Class	Order	Family	Sub Family	Genus Species	BI	Tally
MOLLUSCA	BIVALVIA	VENEROIDA	CORBICULIDAE	Z/A	Corbicula sp.	5	7
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	ANCYLIDAE	Z/A	FAMILY: ANCYLIDAE	5	2
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	PHYSIDAE	Z/A	FAMILY: PHYSIDAE	3	1
MOLLUSCA	GASTROPODA	BASOMMATOPHORA	PLANORBIDAE	Z/A	FAMILY: PLANORBIDAE	4	3
MOLLUSCA	GASTROPODA	NEOTAENIOGLOSSA	HYDROBIIDAE	Z/A	FAMILY: HYDROBIIDAE	5	15

Sample ID: 2013020280102

SCI Score	70	F
# EPT Taxa	5	F
SW Diversity Index	4.336	F
HI Score	8	F
Total # Species	32	F

UNCOLLAPSED RAW DATA
PER SOP

QC JB 1/5/14