DRAFT REVISION—January 21, 1998

HABITAT ASSESSMENT FIELD DATA SHEET—LOW GRADIENT STREAMS (FRONT)

STREAM NAME Little Salt Creek	LOCATION NW 12th Rd, N. of ~~Kennedy~~ Raymond Rd. downstream of bridge	
STATION # 001-R1 RIVERMILE	STREAM CLASS	
LAT 40°58'.076' LONG 96°44.309'	RIVER BASIN	
STORET #	AGENCY	
INVESTIGATORS Ryan Unterseiner, Ed Harricks		
FORM COMPLETED BY RU	DATE 9/17/00 TIME 8:30 AM PM	REASON FOR SURVEY Base Condition

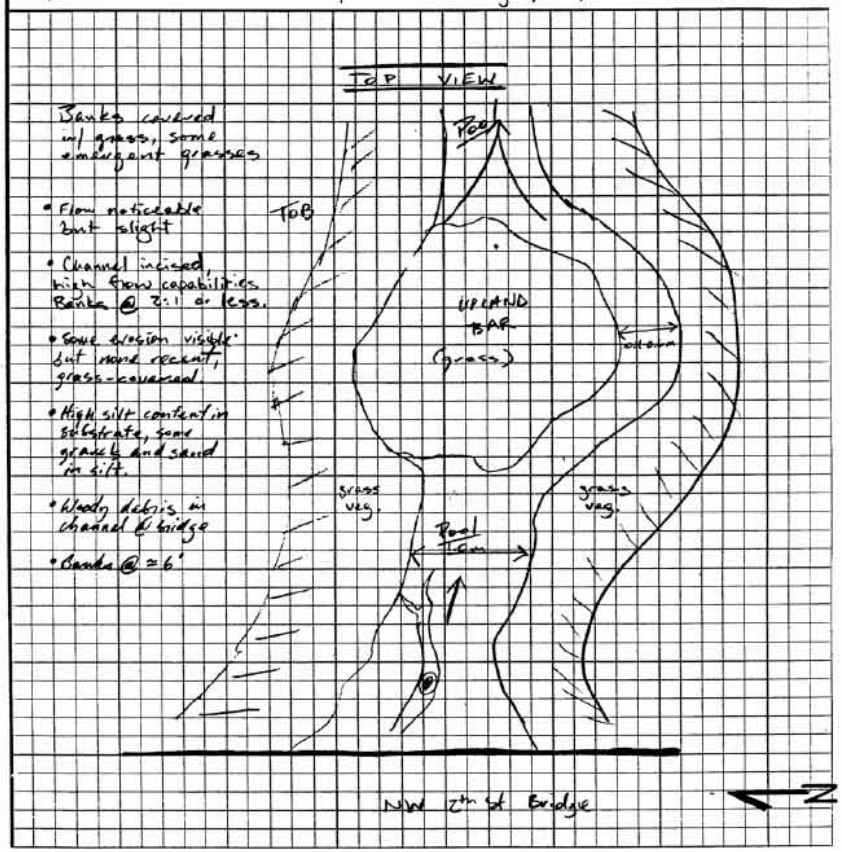
Parameters to be evaluated in sampling reach

Habitat Parameter	Condition Category: Optimal	Suboptimal	Marginal	Poor
1. Epifaunal Substrate/ Available Cover	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are not new fall and not transient).	30-50% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 10% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 (8) 7 6	5 4 3 2 1 0
2. Pool Substrate Characterization "for" Substrate	Mixture of substrate materials, with gravel and firm sand prevalent; root mats and submerged vegetation common.	Mixture of soft sand, mud, or clay; mud may be dominant; some root mats and submerged vegetation present.	All mud or clay or sand bottom; little or no root mat; no submerged vegetation.	Hard-pan clay or bedrock; no root mat or vegetation.
SCORE	20 19 18 17 16	(15) 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
3. Pool Variability	Even mix of large-shallow, large-deep, small-shallow, small-deep pools present.	Majority of pools large-deep; very few shallow.	Shallow pools much more prevalent than deep pools.	Majority of pools small-shallow or pools absent.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 (8) 7 6	5 4 3 2 1 0
4. Sediment Deposition	Little or no enlargement of islands or point bars and less than 5% <20% for low-gradient streams) of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment; 5-30% (20-50% for low-gradient) of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 30-50% (50-80% for low-gradient) of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development, more than 50% (80% for low-gradient) of the bottom changing frequently; pools almost absent due to substantial sediment deposition.
SCORE	20 19 18 17 16	15 14 13 12 11	10 (9) 8 7 6	5 4 3 2 1 0
5. Channel Flow Status	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.	Water fills >75% of the available channel; or <25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
SCORE	20 19 (18) 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

- Rock substrate @ 1.5m from bar. Silt substrate measured @ 1.5m - no bottom.
- When washed in net, sand left behind - fair amount
- Filamentous algae found on bank.
- Sandy material on bed after probing through silt
- Saline soils and incised channel limiting riparian zone, including woody cover

WRIGHT WATER ENGINEERS, INC.
2490 West 26th Ave., Suite 100-A
Denver, Colorado 80211
Tel. (303) 480-1700

Date 9/17/00 Sheet ____ of ____
Proj. No. 961-102.040
Proj. Name City of Lincoln
Des. By RU Ckd. By ____
Subject Channel Sketch, NW 12th St Bridge, Sample Sta 001-R1



LITTLE SALT CREEK BIOASSESSMENT
ORGANISM DATA SHEET - TOP OF WATERSHED STATION - SAMPLE 01

Project Name and Number: City of Lincoln
Station Number/Sample I.D.: Sample 01
Sample Date: September, 2000

Identifying Scientist: R. Unermeier
Identification Date: September, 2000

PHYLUM	CLASS	ORDER	SUBORDER	FAMILY	QUANTITY
Arthropoda	Insecta	Coleoptera		Hydrophilidae	3
Arthropoda	Insecta	Odonata	Zygoptera	Coenagrionidae	1
Arthropoda	Insecta	Coleoptera		Scirtidae	1
Arthropoda	Insecta	Diptera	Nematocera	Simuliidae	1
Arthropoda	Insecta	Diptera		Psychopteridae	5
Arthropoda	Insecta	Diptera		Chironomidae	94
Arthropoda	Insecta	Trichoptera		Hydropsychidae	87
Arthropoda	Insecta	Hemiptera		Corixidae	107
Arthropoda	Insecta	Lepidoptera		Pyralidae	16
Annelida	Oligochaeta	Haplotaxida		Naididae	2
Gastropoda		Limnophila		Lymnaeidae	1
				TOTAL	322

City of Lincoln
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10/4/00

Drn by: RU
Ckd by: DM

DRAFT REVISION—January 21, 1998

HABITAT ASSESSMENT FIELD DATA SHEET—LOW GRADIENT STREAMS (FRONT)

STREAM NAME Little Salt Creek	LOCATION Waverly Bridge
STATION # B1 RIVERMILE	STREAM CLASS
LAT 40°55.981' LONG 96°41.579'	RIVER BASIN
STORET #	AGENCY
INVESTIGATORS Ryan Unterreiner, Ed Harrichs	
FORM COMPLETED BY RU	DATE 9/13/00 TIME 9:45 AM PM / REASON FOR SURVEY Head of Basin

Parameters to be evaluated in sampling reach

Habitat Parameter	Condition Category: Optimal	Suboptimal	Marginal	Poor
1. Epifaunal Substrate/ Available Cover	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are not new fall and not transient).	30-50% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 10% stable habitat; lack of habitat is obvious; substrate unstable or lacking.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
2. Pool Substrate Characterization	Mixture of substrate materials, with gravel and firm sand prevalent; root mats and submerged vegetation common.	Mixture of soft sand, mud, or clay; mud may be dominant; some root mats and submerged vegetation present.	All mud or clay or sand bottom; little or no root mat; no submerged vegetation.	Hard-pan clay or bedrock; no root mat or vegetation.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
3. Pool Variability	Even mix of large-shallow, large-deep, small-shallow, small-deep pools present.	Majority of pools large-deep; very few shallow.	Shallow pools much more prevalent than deep pools.	Majority of pools small-shallow or pools absent.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
4. Sediment Deposition	Little or no enlargement of islands or point bars and less than 5% (<20% for low-gradient streams) of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment; 5-30% (20-50% for low-gradient) of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 30-50% (50-80% for low-gradient) of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; more than 50% (80% for low-gradient) of the bottom changing frequently; pools almost absent due to substantial sediment deposition.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
5. Channel Flow Status	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.	Water fills >75% of the available channel; or <25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

- Substrate firm material overlined by silt
- Substrate material foreign
- Simulids, Trichoptera
- Periphytic growth on bottom silt, implies some strength of substratum

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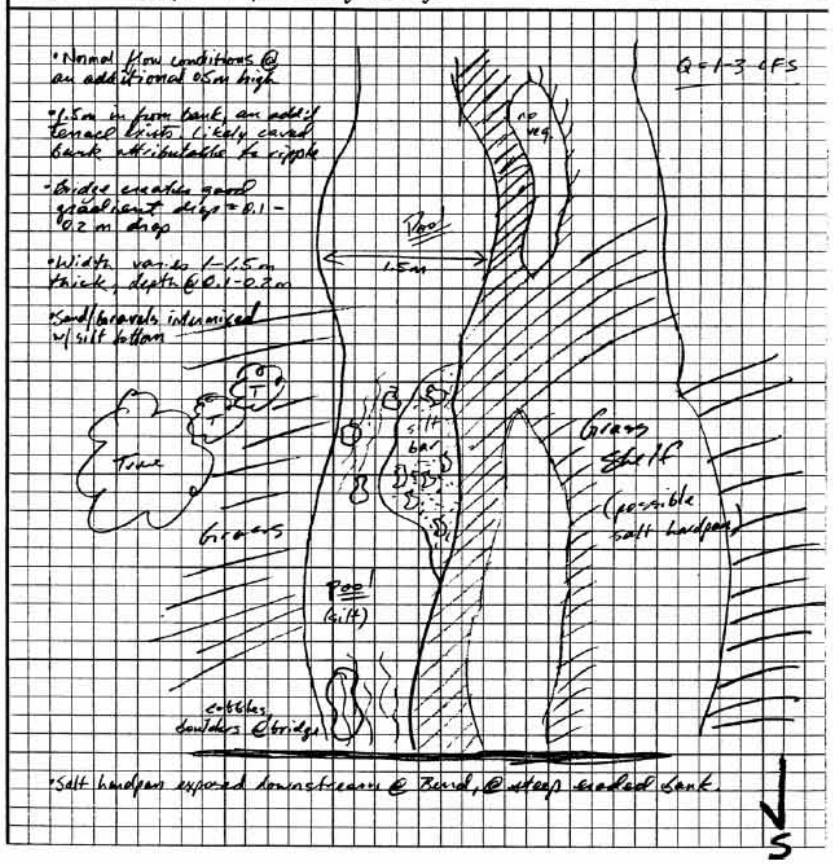
Date 9/17/00 Sheet ____ of ____
Proj. No. 961-102.040
Proj. Name City of Lincoln
Des. By RU Ckd. By ____
Subject Sample 04, Waverly Bridge



LITTLE SALT CREEK BIOASSESSMENT
ORGANISM DATA SHEET - DOWNSTREAM STATION - SAMPLE 05

Project Name and Number: City of Lincoln
Station Number/Sample I.D.: Sample 05
Sample Date: September, 2000

Identifying Scientist: R. Unterreiner
Identification Date: September, 2000

PHYLUM	ORDER	SUBORDER	FAMILY	QUANTITY	COMMENTS
Insecta	Odonata	Zygoptera	Coenagrionidae	15	
	Diptera		Ptychopteridae	3	
	Diptera		Chironomidae	47	
	Hemiptera		Corixidae	10	
	Lepidoptera		Pyralidae	52	
Annelida	Oligochaeta	Haplotaxida	Naididae	2	
			TOTAL	129	

Wright Water Engineers, Inc.
10/4/00

Des.by: RU
Ckd.by: DM

City of Lincoln
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