APPENDIX C

Raw Data Forms for Final Sites

STREAM NAME: BOLIN CI	REEK	DATE	E: 5/30/07			MAP SHEET #: 4
PHOTO NUMBERS:		LANI	OMARK: LA	KE WEST OF OLI) NC 86	SKETCH ON BACK
GPS ID START: IJ04 DESCRIPTION:			GPS ID I	END: IJ04		
RAIN IN LAST 24 HOURS	Heavy rain ☐ Steady rain				☐ Heavy ra	in □ Steady rain □ Intermittent
X None	Intermittent Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE:	☐ Industrial ☐ Commerce ☐ Golf course ☐ Park		Urban/Res Crop	sidential □ Sub □ Past		X Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL	0-25% 25-50 % 50%-75% 75-100%		(clear, no	CLARITY Cleaturally colored) (chemicals, dyes	☐ Opaque	(suspended matter) ☐ Stained (milky)
DOMINANT SUBSTRATE X Silt/clay (fine or slick) ☐ Sand (gritty) ☐ Gravel (0.1-2.5") ☐ Cobble (2.5 -10") ☐ Boulder (>10") ☐ Bed rock	Width: Bottom	5(33 0.5(ft)	OBSERVED IMI Outfall Confluence Impacted b Stream cros Channel mo Utility imps Beaver Other	uffer ssing od	
CHANNEL DYNAMICS	☐ Bed scour ☐			Notes		
☑ Downcutting☑ Widening☑ Headcutting☑ Aggrading	Bank failure	Slope i Chann Unkno	elized			RGE AMOUNTS OF BANK EROSION CISED- COULD DO POSSIBLE OUTFALL
QUALITATIVE IMPAIRMEN	T RATING: Low Dod	erate	X Severe	CHANNEL EV □ VI (Simo		STAGE: I II III IV V 03)



STREAM NAME: UT	DATE: 5	: 5/31/07 MAP SHEET #: 7
PHOTO NUMBERS: 1118-1122	LANDM	MARK: ROGERS AND EUBANKS SKETCH ON BACK
GPS ID START: BD 27 DESCRIPTION:	"	GPS ID END: BD 28 DESCRIPTION:
RAIN IN LAST 24 HOURS ☐ Heavy rain ☐ Steady rain None ☐ Intermittent ☐ Trace SURROUNDING LAND USE: ☐ Industrial ☐ Commerce ☐ Golf course ☐ Park	Σ	PRESENT CONDITIONS ☐ Heavy rain ☐ Steady rain ☐ Intermittent X Clear ☐ Trace ☐ Overcast ☐ Partly cloudy Urban/Residential ☐ Suburban/Res X Forested ☐ Institutional Crop ☐ Pasture ☐ Other:
BASE FLOW WIDTH	(WATER CLARITY ☐ Clear ☐ Turbid (suspended matter) ☐ Stained (clear, naturally colored) ☐ Opaque (milky) ☐ Other (chemicals, dyes) NA
X Silt/clay (fine or slick)	.1(f .5(f 0.1(ft)	(ft)
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading Bed scour Bank failure Bank scour Sed. deposition	Slope fai Channeli Unknow	NOTES SOME FLOW FROM YARDS MAY BE CAUSING HEADCUTS ALSO SIGNS OF RILLS CHANNEL EVOLUTION STAGE: DID HID HID IV DV
QUALITATIVE IMPAIRMENT RATING: Low X Mode	erate \square	$\square \text{ Severe } \square \text{ VI } (Simon \ et. \ al., 2003)$



STREAM NAME: UT	DATE: 6 /2	/5/07		MAP SHEET #: 9
PHOTO NUMBERS: 1087	LANDMA	RK: UP STRM CIRCADIA	N WAY	SKETCH ON BACK
GPS ID START: TA 1 DESCRIPTION: BRIDGE OVER CIRCADIAN WAY	-	PS ID END: TA 4 ESCRIPTION: FOOT BRIE	OGE	
RAIN IN LAST 24 HOURS ☐ Heavy rain ☐ Steady rain ☐ None ☐ Intermittent ☐ Trace		RESENT CONDITIONS Clear	☐ Heavy ra ☐ Trace	in ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE:	rcial 🗆 Urt	ban/Residential X Subu pp □ Pasti		☐ Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH □ 0-25% □ 25-50 % □ 50%-75% X 75-100%	(cl	VATER CLARITY X Clear lear, naturally colored) Other (chemicals, dyes)	☐ Opaque	(suspended matter) ☐ Stained (milky)
☐ Silt/clay (fine or slick) I Sand (gritty) 2 Gravel (0.1-2.5") ☐ Cobble (2.5 -10") Width: Bottom 4.5 Top 10. Water Surface 3.5	5(f (f 0(f 5(f	ft) Confluence Impacted by Stream cros Channel mo	uffer ssing od acts	
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading Bed scour Bank failure Bank scour Sed. deposition] Slope failu] Channelize] Unknown	ed 1	ATER DRAIN	
QUALITATIVE IMPAIRMENT RATING: Low Mod	derate \square S	Severe		



STREAM NAME: UT BELOW GATES FARM RD DATE:			TE: 6/5/07			MAP SHEET #: 14
PHOTO NUMBERS: 1093-1095 LANDI			MARK: GA	TES FARM RD		SKETCH ON BACK
GPS ID START: TA-5	<u>.</u>		GPS ID I	END:		
DESCRIPTION: NEAR GATES FARM RD	ı		DESCRIP	ΓΙΟN:		
RAIN IN LAST 24 HOURS Heavy rain	☐ Steady rain		PRESENT	CONDITIONS	□ Heavy ra	in □ Steady rain □ Intermittent
X None	t □ Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE: Golf con	al □ Commerci urse □ Park		Urban/Res Crop	sidential X Subu ☐ Pastu		☐ Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH D 0-25% D 25-50 % D 50%-75% X 75-100%			(clear, na	CLARITY X Cleaturally colored) (chemicals, dyes)	☐ Opaque	(suspended matter) \square Stained (milky)
DOMINANT SUBSTRATE CHANNEL	DIMENSIONS AT RI	FFLE		OBSERVED IMP	ACTS	
☐ Gravel (0.1-2.5")	Sottom 7.0_ Cop 11.0_ Vater Surface 7.0_		(ft) (ft) (ft)	Stream cros Channel mo Utility impa Beaver	uffer – Cat l ssing od	litter dump site
	o: Low bank/Max E	BKF=_		Other- scou	r from incre	ased SW
	k failure	Slope f Channe Unkno		Notes		
QUALITATIVE IMPAIRMENT RATING:	X Low X Moder	ate [□ Severe	CHANNEL EV □ VI (Simo		STAGE: I II III X IV V 93)



STREAM NAME: UT DATE:			e: 6/6/0 7			MAP SHEET #: 15		
PHOTO NUMBERS: 1098-1099 LANDM			DMARK: COBBLESTONE DR SKETCH ON BACK					
GPS ID START: TA 12			GPS ID	END: TA 13				
DESCRIPTION:			DESCRIPTION:					
RAIN IN LAST 24 HOURS	Heavy rain X Steady rain Intermittent □ Trace		PRESENT X Clear	CONDITIONS	☐ Heavy ra☐ Trace	in ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy		
SURROUNDING LAND USE:		ial 🗆		sidential X Sub				
	☐ Golf course ☐ Park		Crop	Past		Other:		
BASE FLOW WIDTH	0-25% 25-50 %					(suspended matter) Stained		
AS % CHANNEL	50%-75%			aturally colored) (chemicals, dyes		(milky)		
	75-100%			OBSERVED IMI				
DOMINANT SUBSTRATE	CHANNEL DIMENSIONS AT R			OBSERVED IMI	PACIS			
X Silt/clay (fine or slick)				Confluence				
☐ Sand (gritty)			、 /	Impacted b				
☐ Gravel (0.1-2.5")	Water Surface 0.0_		('/	Stream cros	•			
☐ Cobble (2.5 –10") ☐ Boulder (>10")			、 /	Utility imp				
☐ Bed rock	Depth: Max BKF 0.3_		(11)	Beaver				
	B:H Ratio: Low bank/Max	BKF=			from Cobbl	estone Dr		
CHANNEL DYNAMICS	N7			NOTES	D. CHWILL OD	DAW GARREN		
Downcutting	Bed scour Bank failure	Slope	failure	POTENTIAL FO	R SWALE OR	RAIN GARDEN		
☐ Widening☐ Headcutting	Bank scour	Chann						
Aggrading	Sed. deposition	Unkn	own					
QUALITATIVE IMPAIRMEN	T RATING: Low X Mode	erate	☐ Severe	CHANNEL EV ☐ VI (Simo		STAGE: \Box I \Box II X III \Box IV \Box V 03)		
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STREAM NAME: UT TO JO	OLLY BRANCH	DATE	E: 6/5/07			MAP SHEET #: 16
PHOTO NUMBERS: 0418		LAND	MARK: SM	IITH MIDDLE SC	HOOL	SKETCH ON BACK
GPS ID START: IJ 34 DESCRIPTION:			GPS ID I	END: IJ 34 TION:		
RAIN IN LAST 24 HOURS X None SURROUNDING LAND USE:	Intermittent Trace	cial X	□ Clear	conditions sidential X Subt	☐ Trace	in ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy X Forested ☐ Institutional ☐ Other:
AS % CHANNEL X	0-25% 25-50 % 50%-75% 75-100%		(clear, no	CLARITY Cle nturally colored) (chemicals, dyes	☐ Opaque	(suspended matter) ☐ Stained (milky)
X Silt/clay (fine or slick) X Sand (gritty) □ Gravel (0.1-2.5") □ Cobble (2.5 -10") □ Boulder (>10") □ Bed rock	Width: Bottom 2.5_ Top 2.75 Water Surface 2.1_	5	(ft) (ft) (ft)	OBSERVED IMI Outfall Confluence Impacted b Stream cros Channel mo Utility impa Beaver Other – Pip	uffer ssing od acts	
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Bed scour Bank failure Bank scour Sed. deposition	Slope f Channo Unkno	failure elized own	NOTES RCP AT MIDDI UNDERCUT BY I GOOD BMP PO	LE SCHOOL N FLOW TENTIAL	EEDS ENERGY DISSIPATION BEING
QUALITATIVE IMPAIRMEN	T RATING: Low X Mode	erate	□ Severe	□ VI (Simo		



STREAM NAME: JOLLY B	RANCH	DATI	E: 6/5/07		MAP SHEET #: 16
PHOTO NUMBERS: NO PH	ото	LANI	DMARK: HI	GH SCHOOL TRACK	SKETCH ON BACK
GPS ID START: IJ 24 DESCRIPTION:			GPS ID DESCRIP		
RAIN IN LAST 24 HOURS X None SURROUNDING LAND USE:	Intermittent Trace	ial X	☐ Clear	CONDITIONS	ain ☐ Steady rain ☐ Intermittent ☐ Overcast X Partly cloudy X Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH	0-25% 25-50 % 50%-75% 75-100%		(clear, no	aturally colored) 🗆 Opaque	d (suspended matter) Stained e (milky) O FLOW
DOMINANT SUBSTRATE X Silt/clay (fine or slick) □ Sand (gritty) □ Gravel (0.1-2.5") □ Cobble (2.5 -10") □ Boulder (>10") □ Bed rock	Width: Bottom 1.5_ Top 4 Water Surface NA		(ft)(ft)(ft)(ft)	OBSERVED IMPACTS Outfall Confluence Impacted buffer Stream crossing Channel mod Utility impacts Beaver Other – CULVERT Of	UTLETS
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Bed scour Bank failure Rank scour	Slope : Chann Unkn	failure elized	NOTES CULVERT OUTLETS FR STREAM – JOLLY BRAN STORMWATER BMPS H	OM TRACK FLOWING INTO NCH- COULD HAVE ERE
QUALITATIVE IMPAIRMENT RATING: Low Moderate Severe CHANNEL EVOLUTIUON STAGE: I I I I I I I I I I I I I I I I I I					

STREAM NAME: UT JOLLY BRANCH	DATE: 6/5/0'	1	MAP SHEET #: 17
PHOTO NUMBERS: 396-398	LANDMARK:		SKETCH ON BACK
GPS ID START: IJ 26		D END:	
DESCRIPTION:	DESCI	RIPTION:	
RAIN IN LAST 24 HOURS ☐ Heavy rain ☐ Steady rain	PRESE	ENT CONDITIONS	in Steady rain Intermittent
X None	□ Cle	ar \square Trace	☐ Overcast X Partly cloudy
SURROUNDING LAND USE: ☐ Industrial ☐ Commerce ☐ Golf course ☐ Park	cial X Urban/ □ Crop	Residential ☐ Suburban/Res ☐ Pasture	X Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH □ 0-25% □ 25-50 % X 50%-75% □ 75-100%	(clear	R CLARITY ☐ Clear X Turbio naturally colored) ☐ Opaque er (chemicals, dyes)	d (suspended matter) ☐ Stained (milky)
DOMINANT SUBSTRATE CHANNEL DIMENSIONS AT R	RIFFLE	OBSERVED IMPACTS	
X Silt/clay (fine or slick)	(ft)	Outfall Confluence Impacted buffer Stream crossing Channel mod Utility impacts Beaver Other	
Widening	Slope failure Channelized Unknown	SEDIMENT DEPOSITION INCISION OF STREAM OLD BMP IS FAILING	USING OVERLAND EROSION AND
QUALITATIVE IMPAIRMENT RATING: Low Mod	erate Seve	\square VI (Simon et. al., 20	03)



STREAM NAME: UT		DATE:	: 6/6/07			MAP SHEET #: 20
PHOTO NUMBERS: 1111-1112	.2 (TONY)	LAND	MARK: ES	TES		SKETCH ON BACK
GPS ID START: BD 44 DESCRIPTION:			GPS ID I	END: BD 47 FION:		
RAIN IN LAST 24 HOURS ☐ HO	Heavy rain X Steady rain Intermittent ☐ Trace		PRESENT X Clear	CONDITIONS	☐ Heavy rai	in ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy
	☐ Golf course ☐ Park		Urban/Res Crop	idential □ Sub □ Pas		☐ Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH)-25% !5-50 % !0%-75% !5-100%		(clear, na	CLARITY Clauturally colored (chemicals, dye	') □ Opaque	1 (suspended matter) ☐ Stained (milky)
X Silt/clay (fine or slick) ☐ Sand (gritty) X Gravel (0.1-2.5") ☐ Cobble (2.5 -10") ☐ Boulder (>10") ☐ Bed rock	Width: Bottom 6 Top 10 Water Surface 2 Depth: Max BKF 1.0 B:H Ratio: Low bank/Max 1 Bed scour Bank failure Bank scour	((ft) _(ft) (ft) _(ft) ailure	OBSERVED IM Outfall Confluence Impacted I Stream cro Channel n Utility imp Beaver Other NOTES MASS BANK F	buffer- YARE possing nod pacts) WORK
QUALITATIVE IMPAIRMENT	RATING: Low Mode	erate [□ Severe		evolutiuon S non et. al., 200	STAGE:



STREAM NAME: UT BOLIN	Ň	DATE	E: 5/8/07			Мар Sheet #: 20
PHOTO NUMBERS: 23		LANI	OMARK:			SKETCH ON BACK
GPS ID START: BD 11 DESCRIPTION:			GPS ID I DESCRIP			
RAIN IN LAST 24 HOURS None SURROUNDING LAND USE:	Intermittent X Trace		□ Clear		Γrace n/Res	n □ Steady rain □ Intermittent X Overcast □ Partly cloudy Y Forested □ Institutional □ Other:
AS % CHANNEL	0-25% 25-50 % 50%-75% 75-100%		WATER (Turbid ((suspended matter) □ Stained
DOMINANT SUBSTRATE Silt/clay (fine or slick) Sand (gritty) Gravel (0.1-2.5") X Cobble (2.5 -10") Boulder (>10") Bed rock CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	CHANNEL DIMENSIONS AT R Height: Low bank Width: Bottom Top Water Surface Depth: Max BKF B:H Ratio: Low bank/Max Bed scour Bank failure Rank scour	3.2 13 17 1.4 0.6	(ft)(ft) failure elized	Observed Impacts Outfall Confluence Impacted buffer Stream crossing Channel mod Utility impacts Beaver Other NOTES		
QUALITATIVE IMPAIRMEN	TRATING: Low X Mode	erate	☐ Severe	CHANNEL EVOLU □ VI (Simon et.		TAGE: \Box I \Box II \Box III \Box IV \Box V



Constant Marie Till		Diam				M. a Carrage #. 20
STREAM NAME: UT		DATE:				MAP SHEET #: 20
PHOTO NUMBERS: 1105		LAND	MARK: OF	F CARDIFF PL		SKETCH ON BACK
GPS ID START: TA 19			GPS ID I	END:		
DESCRIPTION: SCOUR OF	FRR FILL		DESCRIPT	TION:		
RAIN IN LAST 24 HOURS	Heavy rain X Steady rain		PRESENT	CONDITIONS	☐ Heavy ra	in ☐ Steady rain ☐ Intermittent
□ None □	Intermittent Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE:	☐ Industrial ☐ Commerce ☐ Golf course ☐ Park		Urban/Res Crop	sidential X Subr □ Past		☐ Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL	0-25% 25-50 % 50%-75% 75-100%		(clear, na	CLARITY Cle turally colored) (chemicals, dyes)	☐ Opaque	(suspended matter) ☐ Stained (milky) NA-NO FLOW
DOMINANT SUBSTRATE 1 Silt/clay (fine or slick) ☐ Sand (gritty) 2 Gravel (0.1-2.5") ☐ Cobble (2.5 -10") ☐ Boulder (>10") ☐ Bed rock	CHANNEL DIMENSIONS AT R Height: Low bank Width: Bottom Top Water Surface Depth: Max BKF B:H Ratio: Low bank/Max	(ft (ft (ft (ft)	t) (t) (t)	OBSERVED IMF Outfall Confluence Impacted b Stream cros Channel me Utility impa Beaver Other- SW	uffer ssing od acts	
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Bank failure	Slope fa Channel Unknov	lized	NOTES SIGNIFICANT SO SITE FOR POTES SEWER SMELL	NTIAL RETEN	NTION
QUALITATIVE IMPAIRMEN	T RATING: Low X Mode	erate [☐ Severe	CHANNEL EV ☐ VI (Simo		STAGE: \square I \square II $\overline{\mathbb{X}}$ III \square IV \square V
	A STATE OF THE STA	- 1			OF STREET	



STREAM NAME: UT		DATI	E: 6/7/07			MAP SHEET #: 23
PHOTO NUMBERS: 1117- PIPED CH 1118-11120 DEGRADED		DMARK: BI	ROAD ST.		SKETCH ON BACK	
GPS ID START: TA 29			GPS ID I	END: TA 30		
DESCRIPTION: PIPED ST	NO GPS		DESCRIP	TION: DEGRADI	ED STR	NO GPS
RAIN IN LAST 24 HOURS	Heavy rain ☐ Steady rain		PRESENT	CONDITIONS	☐ Heavy ra	in □ Steady rain □ Intermittent
X None	Intermittent Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE: Industrial Commercial Variable Commercial Variable Variab			Urban/Res Crop	idential \square Sub		☐ Forested ☐ Institutional ☐ Other:
AS % CHANNEL WIDTH	0-25% 25-50 % 50%-75% 75-100%		(clear, no	CLARITY X Cleaturally colored (chemicals, dye) 🗆 Opaque	(suspended matter) ☐ Stained (milky)
DOMINANT SUBSTRATE Silt/clay (fine or slick) Sand (gritty) Gravel (0.1-2.5") Cobble (2.5 -10") Boulder (>10") Bed rock CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	CHANNEL DIMENSIONS AT R Height: Low bank 1.3 Width: Bottom 4.0 Top 5.0 Water Surface 3.0 Depth: Max BKF 1.3 B:H Ratio: Low bank/Max Bed scour Bank failure Rank scour	(ft) (ft) (ft) (ft) (ft) BKF=	failure elized	BE DAYLIGHTI	e buffer ossing nod oacts REAM OF BRO ED TA 29 OF BROAD ST	AD ST STREAM IS PIPED AND COULD STREAM IS DEGRADED AND COULD
QUALITATIVE IMPAIRMEN	TRATING: Low X Mode	erate	□ Severe		evolutiuon S non et. al., 200	
		A COLUMN	The Date of	The sound	を ひたかける 日本	STATE OF THE PROPERTY OF THE PARTY OF THE PA



STREAM NAME: UT		DATE	: 6/7/07			MAP SHEET #: 24
Рното Numbers:1124-112	25	LAND	MARK:			SKETCH ON BACK
GPS ID START: TA 33			GPS ID I	END: TA 34		
DESCRIPTION:			DESCRIP	TION:		
RAIN IN LAST 24 HOURS	Heavy rain ☐ Steady rain		PRESENT	CONDITIONS	☐ Heavy ra	in ☐ Steady rain ☐ Intermittent
X None	Intermittent Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE:	☐ Industrial ☐ Commerce ☐ Golf course ☐ Park		Urban/Res Crop	idential □ Sub □ Pas		☐ Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL X	0-25% 25-50 % 50%-75% 75-100%		(clear, na	CLARITY X Cleaturally colored (chemicals, dye) 🗆 Opaque	(suspended matter) ☐ Stained (milky)
DOMINANT SUBSTRATE Silt/clay (fine or slick) Sand (gritty) Gravel (0.1-2.5") Cobble (2.5 -10") Boulder (>10") Bed rock CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Width: Bottom 10.0 Top 20.0 Water Surface 8.0 Depth: Max BKF 1.4 (B:H Ratio: Low bank/Max Bed scour Bank failure Rank scour	(ft) (ft) (ft) (ft) (ft)	elized	OBSERVED IM Outfall Confluenc Impacted I Stream cro Channel m Utility imp Beaver Other- SC NOTES ENTIRE REACE BANK FROM S	e puffer possing nod pacts OUR from SV	x 5 to 6 ft.eroding vertical
QUALITATIVE IMPAIRMENT RATING: Low Moderate Sever				□ VI (Sim	on et. al., 200	STAGE:
	A MANUAL COLLAND		- C D			



STREAM NAME: UT MILL RACE DATE: 3		E: 5/21/07			MAP SHEET #: 25-24	
PHOTO NUMBERS: 2976-2979	9	LAND	MARK: HI	LLSBOROUGH ST	Γ	SKETCH ON BACK
GPS ID START: IJ 43			GPS ID I	END: IJ 43		
DESCRIPTION:			DESCRIP	ΓΙΟN:		
RAIN IN LAST 24 HOURS \square H	Heavy rain ☐ Steady rain		PRESENT	CONDITIONS	☐ Heavy rai	in ☐ Steady rain ☐ Intermittent
□ None X In	ntermittent Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
	☐ Industrial ☐ Commerc☐ Golf course ☐ Park		Urban/Res Crop	idential X Subu □ Past		X Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH	0-25% 5-50 % 0%-75% 5-100%		(clear, na	CLARITY Cleaturally colored) (chemicals, dyes	☐ Opaque	(suspended matter)
X Silt/clay (fine or slick) ☐ Sand (gritty) ☐ Gravel (0.1-2.5") ☐ Cobble (2.5 -10") ☐ Boulder (>10") ☐ Bed rock	Width: Bottom Top Swater Surface	3-10 3-6 3-6 0.5 0.2	_(ft) _(ft) _(ft) _(ft) _(ft) _(ft)	OBSERVED IMI Outfall Confluence Impacted b Stream cros Channel me Utility imp Beaver Other	uffer ssing od acts	
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Bank scour Sed. deposition	Slope f Channe Unkno	elized own	DEEP GULLY FO POSSIBLE STEI EVEN CULVERT	ORMED P-POOL OR EI FREPLACEMI	SING MASSIVE EROSION ON HILLSIDE NERGY DISSIPATION ENT STAGE: I II X III IV V
QUALITATIVE IMPAIRMENT RATING: Low Moderate Severe UI (Simon et. al., 2003)						

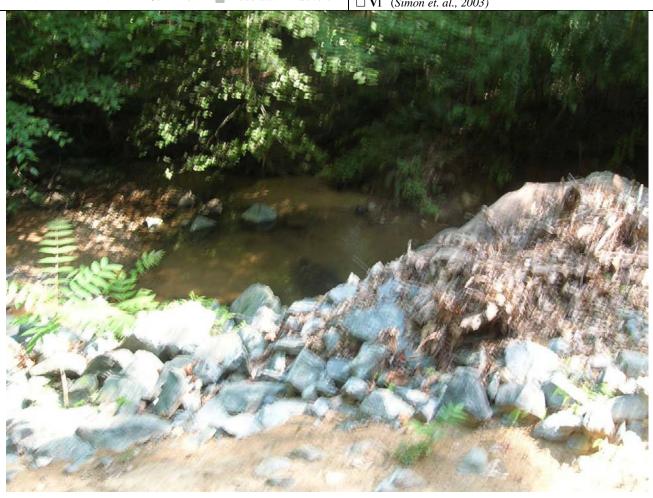


STREAM NAME: BOLIN CR	EEK	DATE:	E: 2/21/07			MAP SHEET #: 25
Рното Numbers: 3015-302	16	LAND	MARK: BO	AARK: BOLINWOOD DR SKETCH ON BACK		
GPS ID START: IJ53 DESCRIPTION:			GPS ID I DESCRIPT	END: IJ53 TION:		
_ ,		ial X U	X Clear Urban/Res		☐ Trace urban/Res	in ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy X Forested ☐ Institutional
BASE FLOW WIDTH AS % CHANNEL	☐ Golf course ☐ Park 0-25% 25-50 % 50%-75% 75-100%		(clear, na	☐ Pass CLARITY X Cle sturally colored) (chemicals, dyes)	ar □Turbid □ Opaque	☐ Other: (suspended matter) ☐ Stained (milky)
X Silt/clay (fine or slick) X Sand (gritty) X Gravel (0.1-2.5") □ Cobble (2.5 -10") □ Boulder (>10") X Bed rock	Width: Bottom Top Water Surface	5-20_(ft) _20(ft _20(ft _20(ft _20(ft	t) t) t)	Observed Im Outfall Confluence Impacted b Stream cro Channel m Utility imp Beaver Other	e ouffer ssing od	
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Bank failure	Slope fa Channel Unknov	lized	NOTES MAJOR BANK I POSSIBLE BANI	K STABILIZA'	TION
QUALITATIVE IMPAIRMENT RATING: Low Moderate Severe				volutiuon \$ on et. al., 200	STAGE: I II III IV V V 33)	



					_	
STREAM NAME: UT DATE			6/21/07		MAP SHEET #: 26	
Рното Numbers: 1162-1	165	LANDM	MARK: YMCA SKETCH ON BACK			
GPS ID START: BD 58			GPS ID F	END: BD 59		
DESCRIPTION:			DESCRIPT	TION:		
RAIN IN LAST 24 HOURS	Heavy rain X Steady rain Intermittent ☐ Trace		PRESENT X Clear	CONDITIONS ☐ Heavy ra ☐ Trace	ain ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy	
SURROUNDING LAND USE:	☐ Industrial X Commerc ☐ Golf course ☐ Park	ial X U		dential ☐ Suburban/Res ☐ Pasture	☐ Forested ☐ Institutional ☐ Other:	
BASE FLOW WIDTH AS % CHANNEL	0-25% 25-50 % 50%-75% 75-100%		(clear, na	CLARITY X Clear □Turbic turally colored) □ Opaque (chemicals, dyes)	1 (suspended matter) ☐ Stained e (milky)	
DOMINANT SUBSTRATE	CHANNEL DIMENSIONS AT I	RIFFLE		OBSERVED IMPACTS		
☐ Silt/clay (fine or slick) X Sand (gritty) ☐ Gravel (0.1-2.5") X Cobble (2.5 –10") ☐ Boulder (>10") ☐ Bed rock	Width: Bottom7 Top9 Water Surface2	5(ft))	Outfall Confluence N Impacted buffer Stream crossing Channel mod Utility impacts Beaver Other	A- development=high flow	
CHANNEL DYNAMICS				Notes		
☑ Downcutting☑ Widening☑ Headcutting☑ Aggrading	Bed scour Bank failure Bank scour Sed. deposition	Slope fa Channel Unknov	ized	THIS NEEDS HELP. ACTIVE SEE BD 59-60.	, GETS WORSE DS .	
QUALITATIVE IMPAIRMEN	T RATING: Low X Mod	erate \square	Severe	CHANNEL EVOLUTIUON VI (Simon et. al., 20	STAGE: \square I \overline{X} II \square III \square IV \square V 003)	

STREAM NAME: COLE SPI	RINGS BR.	DATE	E: 6/21/07			Мар Sheet #: 26
Р ното N имвекs: 1231,12	32	LANI	DMARK:			SKETCH ON BACK
GPS ID START: BD 75			GPS ID 1			
DESCRIPTION:			DESCRIP	TION:		
RAIN IN LAST 24 HOURS	Heavy rain X Steady rain		PRESENT	CONDITIONS	☐ Heavy ra	in Steady rain Intermittent
□ None □	Intermittent Trace		X Clear		☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE:	☐ Industrial ☐ Commerce ☐ Golf course ☐ Park		Urban/Res Crop	sidential ☐ Sub ☐ Past		☐ Forested ☐ Institutional ☐ Other:
AS % CHANNEL	0-25% 25-50 % 50%-75% 75-100%		(clear, no	CLARITY Clearturally colored) (chemicals, dyes	☐ Opaque	(suspended matter) ☐ Stained (milky)
DOMINANT SUBSTRATE ☐ Silt/clay (fine or slick) ☐ Sand (gritty) ☐ Gravel (0.1-2.5") ☐ Cobble (2.5 -10") ☐ Boulder (>10") ☐ Bed rock CHANNEL DYNAMICS	Width: Bottom 4 Top 14 Water Surface 2		_(ft) (ft)	OBSERVED IMI Outfall Confluence Impacted b Stream cro Channel m Utility imp Beaver Other NOTES	e ouffer ssing od acts	
☑ Downcutting☑ Widening☐ Headcutting☐ Aggrading	☐ Bed scour ☐ Bank failure ☐ Bank scour ☐ Sed. deposition	Slope : Chann Unkno	elized	CULVERT FOR CONTRACTION		ADWAY ALONG SS LINE CAUSES
QUALITATIVE IMPAIRMEN	T RATING: Low X Mode	erate	□ Severe		volutiuon S on et. al., 200	STAGE: I II II II II IV V 03)
			1	E2 1	No. of the	



STREAM NAME: UT BATT	LE BRANCH	DATE	E: 6/22/07			MAP SHEET #: 30
PHOTO NUMBERS:NO PHOT	O	LAND	MARK:			SKETCH ON BACK
GPS ID START: IJ 64 DESCRIPTION:			GPS ID I	END: IJ 64 TION:		
RAIN IN LAST 24 HOURS None X SURROUNDING LAND USE:	Intermittent Trace	cial X	X Clear	sidential X Subt	☐ Trace	in ☐ Steady rain ☐ Intermittent ☐ Overcast ☐ Partly cloudy ✓ Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH	0-25% 25-50 % 50%-75% 75-100%		(clear, no	CLARITY ☐ Cle nturally colored) (chemicals, dyes	☐ Opaque	(suspended matter) ☐ Stained (milky)
DOMINANT SUBSTRATE X Silt/clay (fine or slick) □ Sand (gritty) □ Gravel (0.1-2.5") □ Cobble (2.5 -10") □ Boulder (>10") □ Bed rock	Width: Bottom	3-4 3 NA	(ft) (ft)	Observed IMI Outfall Confluence Impacted b Stream cros Channel me Utility imp	uffer ssing od	
CHANNEL DYNAMICS Downcutting Widening Headcutting Aggrading	Bed scour Rank failure	Slope f Channo Unkno	elized	LOTS OF SILT A	ND SEDIMEN	RESSING UP STEEP CHANNEL IT FROM BANK FAILTURE BURIED PIPE UPSTREAM
QUALITATIVE IMPAIRMENT RATING: Low Moderate Severe			CHANNEL EV □ VI (Sime		STAGE: I II III IV V 03)	



STREAM NAME: UT TO BOLIN CR	DATE: 6/21/07		MAP SHEET #: 30
PHOTO NUMBERS: 3032-3034	LANDMARK: ST	EEP HILLSIDE	SKETCH ON BACK
GPS ID START: IJ 60		END: IJ 60	
DESCRIPTION:	DESCRIP	TION:	
RAIN IN LAST 24 HOURS Heavy rain Steady rain	PRESENT	CONDITIONS	in ☐ Steady rain ☐ Intermittent
□ None X Intermittent □ Trace	X Clear	☐ Trace	☐ Overcast ☐ Partly cloudy
SURROUNDING LAND USE:	cial □ Urban/Re □ Crop		X Forested ☐ Institutional ☐ Other:
BASE FLOW WIDTH AS % CHANNEL WIDTH □ 0-25% □ 25-50 % □ 50%-75% □ 75-100%	(clear, n	CLARITY	I (suspended matter) ☐ Stained (milky)
2 Silt/clay (fine or slick) 1 Sand (gritty) ☐ Gravel (0.1-2.5") ☐ Cobble (2.5 -10") ☐ Boulder (>10") ☐ Bed rock Bith Ratio: Low bank/Max	(ft)(ft)(ft)(ft)(ft)	OBSERVED IMPACTS Outfall Confluence Impacted buffer Stream crossing Channel mod Utility impacts Beaver Other- old BMP	
CHANNEL DYNAMICS Downcutting Bed scour Bank failure Bank scour Aggrading Sed. deposition	Slope failure Channelized Unknown	NOTES OLD BMP – MAYBE LEVEL RETROFIT GULLY FORMATION ABOVE ROCK CHECK DAMS BELOW	2
QUALITATIVE IMPAIRMENT RATING: Low Mod	CHANNEL EVOLUTIUON S □ VI (Simon et. al., 20)	STAGE: \square I \square II \square III \square IV \square V 03)	



CPS ID START; BD 87 DESCRIPTION: GPS ID END: BD 88 DESCRIPTION: DESCRIPTION: Steady rain DESCRIPTION: Steady rain DESCRIPTION: PRESENT CONDITIONS Heavy rain Steady rain Intermittent Trace Clear Trace Overcast Partly cloudy SURROUNDING LAND USE: Industrial Golf course Park Crop Pasture Other:	STREAM NAME: BATTLE BR	R	DATE: 6/22/07		Map Sheet #: 34
DESCRIPTION: DESCRIPTION: Carr Channel Dimensions at RIFFLE Clear	Рното Numbers: 1271-1279	9	LANDMARK:		SKETCH ON BACK
None					
Sase FLOW WIDTH School Stained Stained	X None	ntermittent	☐ Clear	☐ Tra	Res Forested Institutional
CHANNEL DIMENSIONS AT RIFFLE Outfall Confluence Impacted buffer Stream crossing Channel mod Channel mod Utility impacts Beaver Other	BASE FLOW WIDTH AS % CHANNEL WIDTH	5-50 % 0%-75%	(clear, no	aturally colored) \Box Op	, •
□ Downcutting □ Bed scour □ Slope failure □ Channelized □ DITCH BUILT BY SS LINE	☐ Silt/clay (fine or slick) ☐ Sand (gritty) ☐ Gravel (0.1-2.5") ☐ Cobble (2.5 –10") ☐ Boulder (>10") ☐ Bed rock	Height: Low bank Width: Bottom Top Water Surface Depth: Max BKF	(ft)(ft)(ft)(ft)(ft)	Outfall Confluence Impacted buffer Stream crossing Channel mod Utility impacts Beaver	
Aggrading Sed. deposition Unknown	Downcutting Widening Headcutting	Bank failure Bank scour		SEE PHOTOS	NE
QUALITATIVE IMPAIRMENT RATING: Low Moderate X Severe CHANNEL EVOLUTION STAGE: I II III IV V V (Simon et. al., 2003)		RATING: Low Mod	lerate X Severe	□ V I (Simon et. a	

