## ChicEPA

## Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	65,13
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Stream & Location: Dia Creek 3926 Valley Rd. RM: 100 ODate: 212114
Zablotnu Enics. J Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District
River Code: STORET #: Lat./ Long.: 41.4436 /81.6996 Office verified location
1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present  BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE  BLDR /SLABS [10]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.    OVERHANGING VEGETATION [1]   POOLS > 70cm [2]   OXBOWS, BACKWATERS [1]   MODERATE 25-75% [7]   SPARSE 5-<25% [3]   SPARSE 5-<25% [3]   NEARLY ABSENT <5% [1]   Comments   Cover Maximum 20   Cover Ma
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)  SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY  HIGH [4] EXCELLENT [7] NONE [6] HIGH [3]  MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2]  LOW [2] FAIR [3] RECOVERING [3] LOW [1]  NONE [1] POOR [1] RECENT OR NO RECOVERY [1]  Comments
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)  River right looking downstream RIPARIAN WIDTH REROSION WIDE > 50m [4] SHRUB OR OLD FIELD [2] MODERATE [2] MODERATE [2] MARROW 5-10m [2] RESIDENTIAL, PARK, NEW FIELD [1] MINING / CONSTRUCTION [0]  Indicate predominant land use(s) past 100m riparian.  RIPARIAN WIDTH REROSION RIPARIAN WIDTH REPOSION RIPARIAN WIDTH
5] POOL / GLIDE AND RIFFLE / RUN QUALITY  MAXIMUM DEPTH CHANNEL WIDTH CHECK ONE (ONLY!)  Check ONE (ONLY!)  Check ONE (ONLY!)  Check ONE (Or 2 & average)  Check ALL that apply  Check ALL that apply  Check ALL that apply  Check ALL that apply  TORRENTIAL [-1]  SLOW [1]  POOL WIDTH = RIFFLE WIDTH [1]  POOL WIDTH = RIFFLE WIDTH [1]  POOL WIDTH < RIFFLE WIDTH [1]  MODERATE [1]  Indicate for reach - pools and riffles.  Recreation Potential  Primary Contact  Secondary Co
Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:  Check ONE (Or 2 & average).  Check ONE (Or 2 & average).  RIFFLE DEPTH BEST AREAS > 10cm [2]
6] GRADIENT (15.66 ft/ml)   VERY LOW - LOW [2-4]   %POOL: %GLIDE: Gradient Maximum (3-6, 0, mi²)   HIGH - VERY HIGH [10-6] %RUN: %RIFFLE: Maximum 10

AJ SAMPLED REACH Check ALL that apply METHOD STAGE BOAT WADE L. LINE DISTANCE DISTANCE DISTANCE DISTANCE DISTANCE DISTANCE DISTANCE DISTANCE DISTANCE DRY CLARITY 1-sample pass-2nd LOW DISTANCE DRY CLARITY 1-sample pass-2nd CARITY 1-sample pass-2nd 1-sample pass	BJ AESTHETICS    NUISANCE ALGAE   INVASIVE MACROPHYTES   EXCESS TURBIDITY   DISCOLORATION   FOAM / SCUM   OIL SHEEN   TRASH / LITTER   NUISANCE ODOR   SLUDGE DEPOSITS   CSOs/SSOs/OUTFALLS	D] MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / GUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	n/ Observed - Inferred, Other	E] ISSUES  WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H <sub>2</sub> 0 / TILE / H <sub>2</sub> 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	FI MEASUREMENTS  X width X depth X bankfull width bankfull X depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:
Stream Drawing:			A	D. Jacob	
Car	£11.	eard fil	1 Sand	Bedroil	EN ALMED A
	1	o with	Top Top	26 1	135.43
Land	fill		P. B.	J. N.	
	> Flow	5 14" RIAGE			
	Bulder.	Concret			
			5 6		Married Co.
			3		

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## Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	8
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Stream & Location:	reek Jer	niongs Rd.	RM: 0.15 Date: 121 2114
Zablotny Eric . S.	Scorers		Northeast Ohio Regional Sewer District
River Code:	STORET #:	Lat./Long.: 41 . 446	0 78 1. 1. 1. 1. 1. 2. Office verified □ location □
1] SUBSTRATE Check ONLY Two suestimate % or note estimate % or note es	very type present OTHER TYPES POOL HARDPAN [4] DETRITUS [3] MUCK [2] SILT [2] ARTIFICIAL [0] (Score natural substrate	Check Of ORIGIN  RIFFLE UIMESTONE [1]  (ii) TILLS [1]	NE (Or 2 & average)  QUALITY  HEAVY [-2]  MODERATE [-1]  NORMAL [0]  FREE [1]  DECLEMENTATION  MAXIMUM  MAXIMUM
2] INSTREAM COVER Indicate preduction quality; 3-Highest quality in moderate or diameter log that is stable, well develope UNDERCUT BANKS [1]  GOVERHANGING VEGETATION [1]  SHALLOWS (IN SLOW WATER) [1]  ROOTMATS [1]	pderate amounts, but not of hig greater amounts (e.g., very larg d rootwad in deep / fast water, POOLS > 70cm [2] ROOTWADS [1]	hest quality or in small amounts on the boulders in deep or fast water,	ools. ☐ Check ONE (Or 2 & average)    Check ONE (Or 2 & average)
3] CHANNEL MORPHOLOGY Che SINUOSITY DEVELOPMEN	CHANNELIZATIO	N STABILITY	
HIGH [4]	M NONE [6] RECOVERED [4] RECOVERING [3] RECENT OR NO RECO	☐ HIGH [3] ☐ MODERATE [2] ☐ LOW [1]  DVERY [1]	Channel Maximum 20
4] BANK EROSION AND RIPAR	AN ZONE Check ONE in ea	ch category for EACH BANK (Or FLOOD PLAIN QUALIT	
EROSION   WIDE   WIDE   MODE	> 50m [4]	REST, SWAMP [3] RUB OR OLD FIELD [2] SIDENTIAL, PARK, NEW FIELD [ NCED PASTURE [1] EN PASTURE, ROWCROP [0]	CONSERVATION TILLAGE [1]
Comments Severe	- Erosion RI	2. 20'4 RR b	ank logt Maximum 3
Check ONE (ONLY!) Check C ☐ > 1m [6] ☑ POOL WID ☐ 0.7~1m [4] ☐ POOL WID	NNEL WIDTH  NE (Or 2 & average)  TH > RIFFLE WIDTH [2] □ TH  TH = RIFFLE WIDTH [1] □ V  TH < RIFFLE WIDTH [0] 即 F.	CURRENT VELOCITY  Check ALL that apply ORRENTIAL [-1]  SLOW [1] ERY FAST [1]  INTERSTITI AST [1]  INTERMITT ODERATE [1]  EDDIES [1] Indicate for reach - pools and riffi	Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool/
BEST AREAS > 10cm [2] MAXIMU	Check ONE (O DEPTH RIFFLE / I M > 50cm [2] ☐ STABLE (e.g. M < 50cm [1] ∰ MOD. STABLE	r 2 & average). RUN SUBSTRATE RIFF g., Cobble, Boulder) [2]	
			8
DRAINAGE AREA 🗓 M	ERY LOW - LOW [2-4] ODERATE [6-10] GH - VERY HIGH [10-6]	=	%GLIDE: Gradient Maximum 10

