

Stream & Location: Shaw Brook - US Lakeshore Blvd
JUSTIN TELEP

RM: 0.4 Date: 6/30/22

Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 19-144-000 STORET #: 302509 Lat./Long.: 41.5554 181.6021

Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Check ONE (Or 2 & average)

Grid for Substrate assessment including categories: BEST TYPES (BLDR/SLABS, BOULDER, COBBLE, GRAVEL, SAND, BEDROCK), OTHER TYPES (HARDPAN, DETRITUS, MUCK, SILT, ARTIFICIAL), POOL RIFFLE, ORIGIN (LIMESTONE, TILLS, WETLANDS, SANDSTONE, RIP/RAP, LACUSTURINE, SHALE, COAL FINES), and QUALITY (HEAVY, MODERATE, NORMAL, FREE, EXTENSIVE).

NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) 3 or less [0]

Comments

7 + 2 + 0 + 0 - 2 - 2 = 5

Urban ditch/runoff

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.

AMOUNT

Check ONE (Or 2 & average)

Grid for Instream Cover assessment including categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS > 70cm, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS.

Comments

1 + 1 = 2

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Grid for Channel Morphology assessment including categories: SINUOSITY (HIGH, MODERATE, LOW, NONE), DEVELOPMENT (EXCELLENT, GOOD, FAIR, POOR), CHANNELIZATION (NONE, RECOVERED, RECOVERING, RECENT OR NO RECOVERY), STABILITY (HIGH, MODERATE, LOW).

Comments

Questionable channelization. ~12' bank height, incised channel w/ no floodplain

Fine gravel/muck

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Grid for Bank Erosion and Riparian Zone assessment including categories: EROSION (NONE/LITTLE, MODERATE, HEAVY/SEVERE), RIPARIAN WIDTH (WIDE, MODERATE, NARROW, VERY NARROW, NONE), FLOOD PLAIN QUALITY (FOREST/SWAMP, SHRUB/OLD FIELD, RESIDENTIAL/PARK/NEW FIELD, FENCED PASTURE, OPEN PASTURE/ROWCROP), CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING/CONSTRUCTION.

Comments

2 + 1 + 0.5

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

Grid for Pool/Glide and Riffle/Run Quality assessment including categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY (TORRENTIAL, VERY FAST, FAST, MODERATE, SLOW, INTERSTITIAL, INTERMITTENT, EDDIES).

Comments

2 + 1 + 0

Recreation Potential Primary Contact Secondary Contact

Pool / Current Maximum 12

3

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

Check ONE (Or 2 & average)

NO RIFFLE [metric=0]

Grid for Riffle/Run Quality assessment including categories: RIFFLE DEPTH (BEST AREAS > 10cm, 5-10cm, < 5cm), RUN DEPTH (MAXIMUM > 50cm, < 50cm), RIFFLE / RUN SUBSTRATE (STABLE, MOD. STABLE, UNSTABLE), RIFFLE / RUN EMBEDDEDNESS (NONE, LOW, MODERATE, EXTENSIVE).

Comments

Riffle / Run Maximum 8

0

6] GRADIENT (66.7 ft/mi) DRAINAGE AREA (0.4 mi^2)

%POOL: %GLIDE: %RUN: %RIFFLE:

Gradient Maximum 10

4

Comment RE: Reach consistency/Is reach typical of stream? Recreation/Observed - Inferred, Other/Sampling observations, Concerns, Access directions, etc.

Shaw Brook is a small, incised ditch with runoff originating from highway stormwater runoff. Trash observed throughout with gross amounts of silt and duck. Flow was nearly non-existent during survey.

AJ SAMPLED REACH

Check ALL that apply

METHOD

- BOAT
- WADE
- W/LINE
- OTHER

- HIGH
- UP
- NORMAL
- LOW
- DRY

DISTANCE

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

150 meters

CLARITY

- 1st --sample pass--
- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm/CTB

- 2nd
- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm/CTB

SECCHI DEPTH

- 1st
- 2nd

cm

CANOPY

- > 85%- OPEN
- 55%-<85%
- 30%-<55%
- 10%-<30%
- <10%- CLOSED

CJ RECREATION

AREA DEPTH

- POOL: >100ft² >3ft
- NO

DJ MAINTENANCE

- PUBLIC/PRIVATE/BOTH/NA
- ACTIVE/HISTORIC/BOTH/NA
- YOUNG-SUCCESSION-OLD
- SPRAY/SNAG/REMOVED
- MODIFIED/DIPPED/OUT/NA
- LEVEED/ONE-SIDED
- RELOCATED/CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMORED/SLUMPS
- ISLANDS/SCOURED
- IMPOUNDED/DESICCATED
- FLOOD CONTROL/DRAINAGE

EJ 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 H₂O / TILE / H₂O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

FJ MEASUREMENTS

- \bar{x} width
- \bar{x} depth
- max. depth
- \bar{x} bankfull width
- bankfull \bar{x} depth
- W/D ratio
- bankfull max. depth
- floodprone \bar{x}^2 width
- entrench. ratio
- Legacy Tree:

Stream Drawing:

Flow ←
North ←

