## VFC Index - Watershed (Plan)

Program:	Watershed
IDEM Document Type:	Plan
Document Date:	9/11/2003
Security Group:	Public
Project Name:	Highland-Pigeon WMP
Plan Type:	Watershed Management Plan
HUC Code:	05140202 Highland-Pigeon
Sponsor:	Four Rivers RC&D
Contract #:	00-86
County:	Vanderburgh
Cross Reference ID:	22628305; 22628303
Comments:	Gibson, Pike, Warrick, Posey

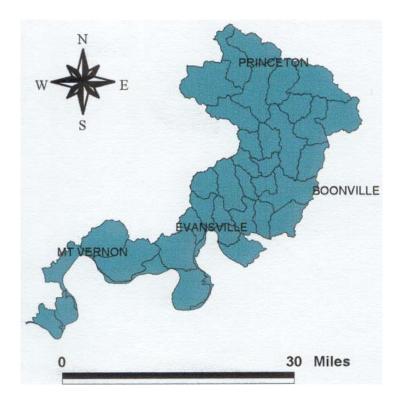
### **Additional WMP Information**

Checklist:	2003 Checklist
Grant type:	319
Fiscal Year:	2000
IDEM Approval Date:	9/11/2003
EPA Approval Date:	
Project Manager:	Amy Henninger

# **Watershed Management Plan**

For

# **Highland-Pigeon Watershed**



Prepared for Indiana Dept. of Environmental Management by Pigeon-Highland Watershed Steering Committee and Four Rivers Resource Conservation & Development Area, Inc. June 2003

#### Executive Summary

Highland-Pigeon Watershed drains nearly 300,000 acres of southwestern Indiana to the Ohio River. Since settlement by Europeans, the landscape of the watershed has been altered dramatically. Over the decades, settler activities have changed the dynamic equilibrium of the streams and their upslope systems. The cumulative effect of these watershed changes on the aquatic ecosystem has been degradation of water quality, loss of floodplain storage, diminished wildlife populations, and decreased aesthetic and recreational values. This Watershed Management Plan was written to evaluate the severity of these changes and to recommend implementation of best management practices, engineering studies, and educational opportunities to improve water quality in Highland-Pigeon watershed.

Major nonpoint sources of pollutants to the watershed are row crop agriculture, mined lands, and urban runoff. Cropland area in the watershed has been reasonably constant since 1997. Watershed wide, conservation tillage systems were used on 25% of cropland in 1997, 16% of cropland in 1998, and 33% of cropland in 2000. Data on the conservation tillage in the watersheds are insufficient to statistically demonstrate trends. In the year 2000, the Warrick County portion of the plan area had the highest rate of conservation tillage adoption, with 51% of its cropland in some type of conservation tillage.

While all 37 subwatersheds are impaired for aquatic life support to some degree, among the more healthy subwatersheds, and those most warranting protection against degradation, include principally Smith Fork (subwatersheds 20 and 21), Little Pigeon Creek (subwatershed 12) and Big Creek (subwatersheds 17, 18 and 19).

There are also extensive bottomland wetlands along Pigeon Creek and the Ohio River(subwatersheds 15,19,21 and 33) that remain. We recommend these be studied for enhanced legal protection, perhaps in association with an overall corridor initiative for the watershed.

#### RESTORATION OF STREAM CORRIDOR

According to IDEM's surface water assessment methodology, all streams in the watershed are impaired for support of aquatic life due to physical habitat degradation. No site met the IDEM's QHEI score to be considered fully supportive of aquatic life and therefore should be considered a candidate for 303(d) listing and TMDL development.

This is the effect of nearly two centuries of single-purpose water resource management for improved agricultural drainage and construction of the Wabash and Erie Canal. To address historic stream degradation and soil erosion, we recommend extensive new investments in agricultural BMPs. Stream corridor restoration is required to improve connectivity and width of the riparian corridor; such an investment will benefit nutrient and water flow, sediment trapping during floods, water storage, wildlife migration, floral dispersal, biodiversity, and sustainability (NRCS 1998).

We have recommended stream corridor restoration efforts in nearly all subwatersheds in the Pigeon Creek watershed. This restoration is a complex endeavor that begins with the recognition that human-induced changes have damaged the structure and function of the ecosystem and prevent the recovery of the watershed to a sustainable condition. These human-induced changes include:

- Creation of the Wabash and Erie Canal
- Channelization of first and second order streams to facilitate agricultural drainage
- Draining of wetlands
- Dredging, clearing and snagging of Pigeon Creek to reduce flooding
- Increased watershed imperviousness

- Mineral extraction and massive landscape alteration
- Loss and/or alteration of vegetative cover across the watershed
- · Addition of nutrients and other pollutants to the streams

The Pigeon-Highland Watershed Steering Committee, or similar stakeholder galvanizing group, will be required to drive the social, political and financial requirements of a whole-scale corridor restoration program. EWSU and EMC are currently forming a CSO Stakeholder Advisory Committee that may also present opportunities for public education and involvement.

Part of stream corridor restoration that should be supported immediately is conservation buffers in agricultural and urban areas. Besides reducing sediment, nutrients and pesticides in runoff water, conservation buffers can greatly increase wildlife habitat.

The USDA's Conservation Reserve Program (CRP) is an excellent opportunity for establishing conservation buffers in agricultural areas. Costs for installation of conservation buffers ranges widely, as expected given the broad variety of buffer types. The CRP shares in the cost of installation of conservation buffers and provides for long-term contracts for the setting aside of eligible lands.

#### HIGHLY ERODIBLE LANDS

According to our land use map, soils map, and sediment loss models, subwatersheds 6, 18, 20, 22, 23, 24, 25 and 26 are the priority areas for investing in soil erosion controls. These subwatersheds contain Fairpoint and Alford soils that appear to be tilled. In any case, tillage of the Fairpoint or Alford soil associations will result in very high soil loss rates and special efforts to mitigate these areas will reap significant benefits.

Conservation tillage in 2000 was practiced on approximately one-third of all cropland, being highest (51% of cropland) in Warrick County. In 2000 in Gibson County, farmers practiced conservation tillage on about 25% of croplands. There are large areas of highly erodible Alford soils in Gibson County (Figure 7) that warrant conservation tillage (or CRP set aside).

#### POINT SOURCE CONTROLS

We examined the available performance records of public and private wastewater treatment plants (WWTP) in the watershed. We also monitored the EWSU's combined sewer system tributary to Pigeon Creek and examined available operational records. Recommendations are presented below.

We have data that examines point sources of pollution throughout the watershed. Permitted point sources include EWSU's eight CSO discharges to lower Pigeon Creek, five industrial discharges, and six municipal wastewater treatment plants (WWTP). The CSOs are addressed below under the context of the SRCER. The five industrial discharges appear to be minor contributors of pollutants to Pigeon Creek, with generally good compliance records. In general, the municipal WWTPs in the watershed do not have acceptable performance records and require expansion, upgrading, and/or additional operator training. Three municipal WWTPs have been upgraded, but more should be studied for possible upgrade or expansion.

• The Chandler WWTP has a history of poor compliance, but has been upgraded, so pollutant discharges from this point source may be reduced in the future.

• The Haubstadt WWTP also had a history of poor compliance. We verified this with our sampling program. This WWTP has been upgraded-since the data was collected- to reduce wet weather overflows and improve effluent quality.

• The Fort Branch WWTP also has noncompliance reports to its records. We measured high coliform bacteria concentrations, high nitrates, and supersaturated dissolved oxygen conditions downstream of this facility. No plans for expansion or upgrade have been made- but it has been discussed for several years.

• The Elberfeld WWTP has numerous noncompliance reports in the EPA's Permit Compliance System database. It is currently being expanded.

#### COMBINED SEWER OVERFLOWS

We monitored wet weather CSO discharges for eight months. From the water quality data, the waterway is most affected by the discharges of *E. coli* bacteria. That water quality standard is regularly exceeded during wet weather both within and upstream of the CSO discharge area. The inflow/infiltration monitoring program should be expanded in the CSS. Since more overflows appear to occur in areas with high concentrations of commercial/industrial customers it is recommended that inspection of all commercial and industrial structures be undertaken to identify any additional sources of inflow and infiltration to the sewer system. Efforts should be made to disconnect such direct sources of inflow as far as possible.

Existing flow monitoring efforts should be greatly expanded in order to confirm the capacities of major sanitary sewers and to verify the results of the capacity analyses conducted earlier.

In view of the fact that overflows continue to be significant and are perhaps causing deterioration of Pigeon Creek, Evansville should continue to investigate the feasibility of providing in-line storage in 11 sub-systems and detention/ retention basins at various sites. A gate control system, which would control the non-automated CSOs to Pigeon Creek and the Ohio River, would allow the storage of combined sewerage in the interceptors tributary to the diversions. This gate control system could provide about 154,5000 cubic feet (11.6 MG) of storage. To obtain the maximum storage, available, additional weirs, gates, etc. may be necessary. A study to investigate the feasibility of such a system and the condition of the sewers at the storage sites (to avoid damage from surcharging) is warranted and should be implemented.

Evaluation of a runoff control program to store and control runoff before it enters the combined system is also recommended. The feasibility and effectiveness of this alternative requires development of a system model, scheduled for completion as part of the long-term CSO control plan LTCP.

Elements of the LTCP are (USEPA 1995):

- 1. Characterization, monitoring and modeling activities for selecting and designing effective CSO controls
- 2. Public participation programming to involve stakeholders in decision-making for long-term controls
- 3. Consideration of sensitive areas as the highest priority for controlling overflows
- 4. Evaluation of alternatives to select controls that meet the Clean Water Act requirements
- 5. Cost and performance considerations
- 6. Operational plan revisions to include the selected long-term control measures
- 7. Maximization of treatment at the existing treatment plants for wet weather flows
- 8. An implementation schedule
- 9. A post-construction compliance monitoring program

The watershed management plan for Highland-Pigeon watershed has been prepared by watershed coordinator Rick Obenshain, an employee of Four Rivers Resource Conservation & Development Area, Inc., with assistance from: Amy Steeples and Gary Seibert- Resource Specialists with Indiana Dept. of Natural Resources, Div. Of Soil Conservation; Dennis Angel, Posey Co. SWCD chairman, PHWSC chairman; Ethel Osborn, Gibson Co. SWCD Coordinator; and Jane Bruce, Warrick Co. SWCD Coordinator. Members of the ad hoc Watershed Management Plan committee include those people listed above, and: Darrell Rice, NRCS District Conservationist for Vanderburgh Co.; Norma Duckworth, SWCD Water Quality Specialist for

Vanderburgh Co.; and Jeri Ziliak, Posey Co. SWCD Coordinator. Geographic Information System (GIS) files and assistance were provided by Larry Hazelwood, SW Indiana Brine Coalition.

The members of the Pigeon-Highland Watershed Steering Committee are: Greg Obert and Travis Nolcox, Gibson Co.; Mike Watson and Gerry Howard, Warrick Co.; Dave Ellison, Tom Niksch and Joy Fitzgerald, Vanderburgh Co.; Dennis Angel and Jim Droege, Posey Co. Administrator of IDEM's Section 319 grants for the watershed was Dave Elgin, Coordinator of Four Rivers RC&D Area, Inc.

The information, data and recommendations found within this document draw heavily from "Pigeon Creek Watershed Diagnostic Study" written by Harza Engineering Company, October, 2000, commissioned by Evansville Water & Sewer Utility(EWSU) and Four Rivers RC&D Area, Inc., and paid for by EWSU and grants from In. Dept. of Environmental Management and In. Dept. of Natural Resources Lake & River Enhancement.

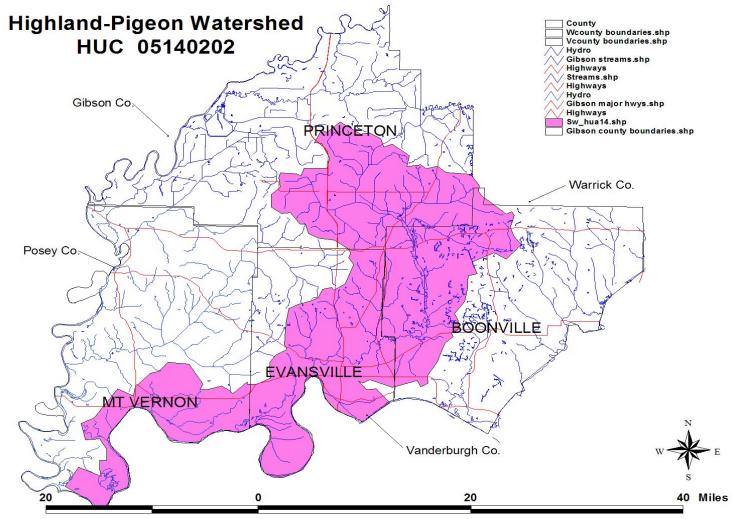


Figure 1: Highland – Pigeon watershed

## A Watershed Management Plan for Highland-Pigeon Watershed

- **1. Introducing the Project**
- 2. Describing the Watershed
- 3. Establishing Benchmarks
- 4. Identifying Problem Causes & Stressors
- 5. Identifying Sources
- 6. Identifying Critical Areas
- 7. Setting Goals and Selecting Indicators
- 8. Choosing Measures to Apply
- 9. Calculating Load Reductions
- **10.Implementing the Measures**
- **11.Monitoring Indicators**
- 12. Evaluating and Adapting the Plan

Appendices:

A: Data from Harza Diagnostic Study of Pigeon Creek and IDEM Assessment Branch

B: Data from Pigeon-Highland Watershed Steering Committee for Pigeon Creek basin and Carpentier Creek

C: Summary of Combined Sewer Overflow Effects

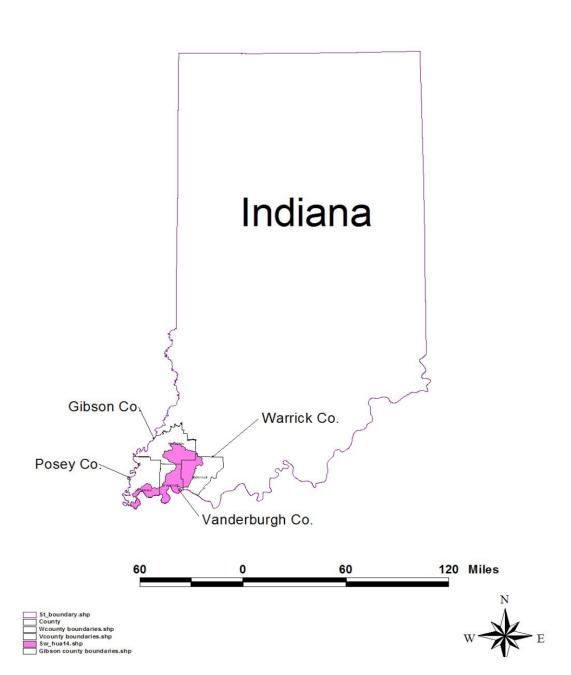
D: Data from Harza Diagnostic Study and PHWSC for McFadden Creek

E: Data from SOLE and IDEM Assessment Branch for Bayou Creek

F: Goals and Timeline

G: Past Conservation Efforts in the Watershed

- **1.** Introducing the Project: Describe the process the community went through when developing the plan, list the parties involved, and summarize any important issues that influenced how the plan emerged.
- Highland-Pigeon watershed, HUC 05140202, is located in SW Indiana and NW Kentucky, and contributes flow to the Ohio River (see map, Figure 1). For the purposes of planning at a state level, the watershed management plan only considers the portion of the watershed in Indiana. This area of the watershed encompasses approximately 400 square miles in four counties of SW Indiana: Gibson, Warrick, Vanderburgh and Posey (see map, Figure 2). The major land use is agriculture, but there are significant areas of urban, mining and wetlands.
- This watershed management plan was developed in response to a request from the Indiana Conservation Partnership members in SW Indiana: USDA-NRCS, IDNR-Div. Of Soil Conservation, county Soil & Water Conservation Districts and citizen stakeholders. The overall responsibility for the plan belongs to the Pigeon-Highland Watershed Steering Committee (PHWSC). PHWSC's mission statement reads: "Our mission is to coordinate efforts to improve the natural resources of Pigeon-Highland Watershed for present and future generations." The original "Citizens for the Improvement of Pigeon Creek" committee was formed in 1994, and helped develop the "Watershed workplan designed for Pigeon Creek", published in 1997. This plan was limited in use because: it only covered the Pigeon Creek watershed; recommendations for action were too generalized; there was not enough scientific data to base more detailed planning upon; and six years after publication, it is out of date in many sections.
- Concerns about water quality in the watershed were voiced by stakeholders at public meetings, conversations at the SWCD offices and at other community meetings. Sedimentation from soil erosion- and related problems- was the most commonly-expressed concern. Other concerns included: need for education; flooding, loss of habitat-trees, malfunctioning septic systems, illegal dumping of solid waste; destruction of wetlands, failure of developers to design and follow erosion control plans; and safety of water for recreationespecially for children.
- Decisions regarding the watershed management plan were made by the PHWSC with advice from the watershed restoration coordinator, NRCS, IDNR and SWCD staff.
- Partners in developing the actual plan included: USDA-NRCS District Conservationist Darrell Rice; Gibson Co. SWCD office coordinator Ethel Osborn, and Warrick Co. SWCD office coordinator Jane Bruce, who put together the raw data Appendices; Posey Co. SWCD and PHWSC chairman Dennis Angel, who co-wrote Section 2 with IDNR Resource Specialist Gary Seibert; PHWSC watershed restoration coordinator Rick Obenshain, who was responsible for facilitation of planning meetings, record keeping, document retention, preparation of maps, wrote Sections 1,7-12and co-wrote Section 3 with IDNR Resource Specialist Amy Steeples; and Vanderburgh Co. SWCD water quality specialist Norma Duckworth, who assisted with overall planning.
- The major community groups (stakeholders) engaged in the planning process included: agricultural landowners, through the local SWCD's; and urban citizens, through the Greenway Passage Committee and the Westside Improvement Association. These groups were involved because, despite their obvious differences, i.e. urban vs. rural, they discovered that they had some common goals- taking responsibility for making the streams of Pigeon-Highland watershed healthier.



## Highland-Pigeon Watershed in SW Indiana

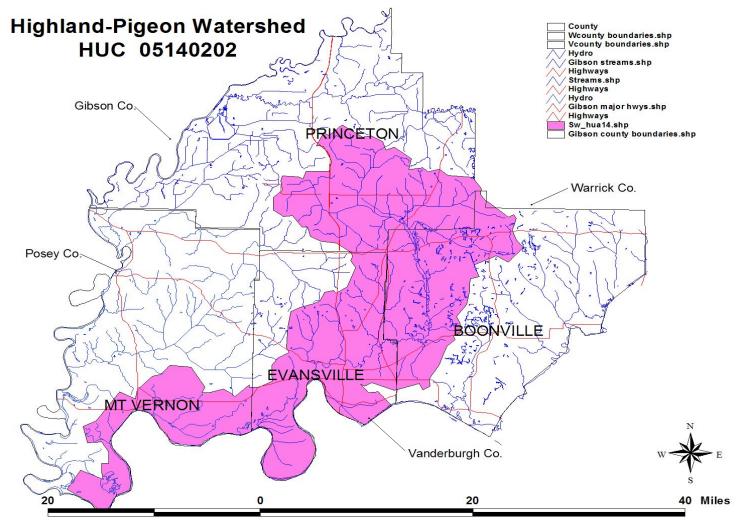
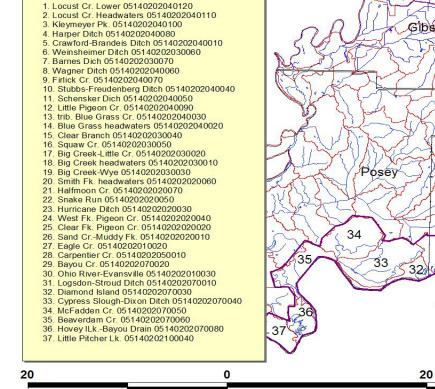
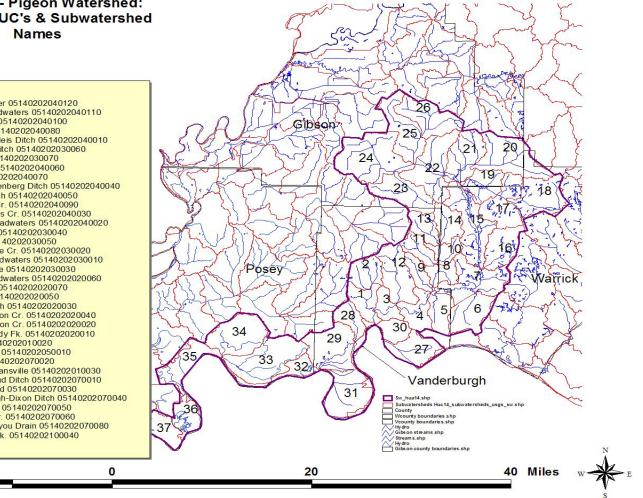


Figure 3: Location of Highland - Pigeon watershed within SW Indiana

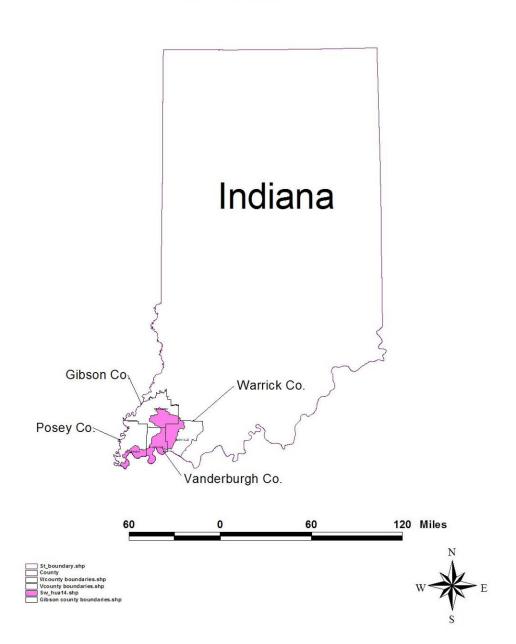
#### Highland - Pigeon Watershed: 14 - digit HUC's & Subwatershed Names







2. <u>Describing the Watershed:</u> Describe features of the watershed, including land use, soil types, topographic features, hydrology, and any other information needed to understand the plan.



Highland-Pigeon Watershed in SW Indiana

Figure 5: Location of watershed

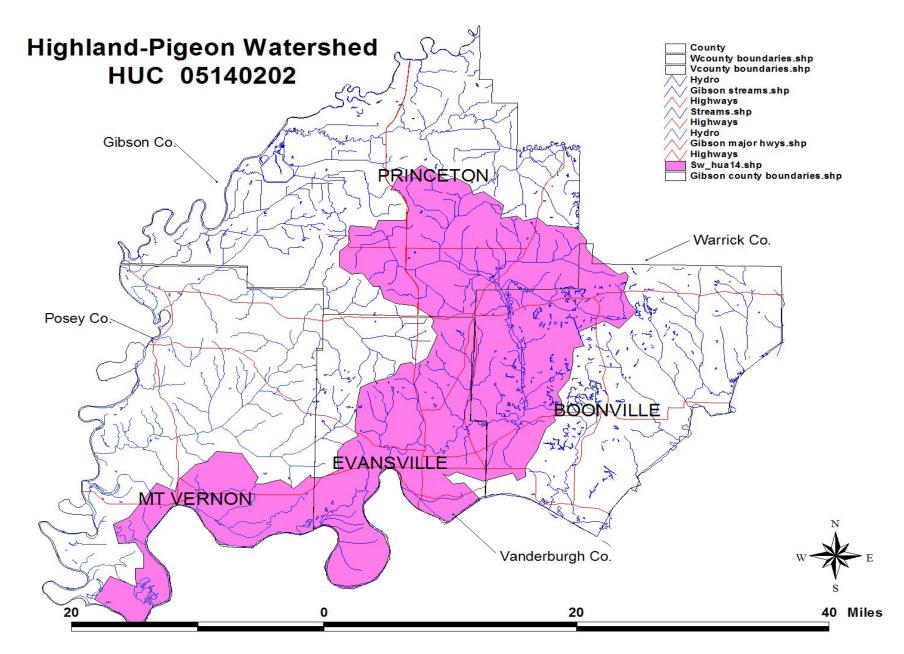


Figure 6: Location of watershed within SW Indiana

#### **Physical description:**

#### Geologic setting

The study area is in unglaciated terrain of the Wabash Lowland Region. The watershed is nearly entirely underlain by the McLeansboro Group Patoka and Shelburn bedrock formations of Pennsylvanian age. The outcrop belt of the McLeansboro Group extends from western Warrick County northward to southwestern Vermillion County. The maximum thickness of 770 feet (235 m) is reached in the Mumford Hills in northern Posey County. Shale and sandstone make up more than 90 percent of this sequence, but minor amounts of siltstone, limestone, clay, and coal are present (Wier 1961, 1965).

#### Climate

While Indiana has warm summers and cold winters, temperatures fluctuates both daily and seasonally as surges of polar air move southward or tropical air masses move northward. Temperature fluctuations are more common in winter than in summer. Severe storms and tornadoes are more frequent in the spring months. Temperature and precipitation data for the area are presented below. Spring is generally the wettest season in southwestern Indiana. The length of the growing season ranges from 166 to 233 days.

#### Natural History

• Pigeon Creek enters the Ohio River at mile point 792.9 after draining 375 square miles of southwestern Indiana. The drainages of both Pigeon Creek and McFadden Creek are largely rural, and contain a variety of land uses and cover types. Land use/land cover types in the watershed include forests, water and wetlands, prairies, residential and commercial urban areas, industrial and rural areas, active and reclaimed mined lands, and agriculture. These habitats provide for an abundant and diverse fauna. Principal crops include wheat, corn and soybeans. Large tracts of coal mined lands are on the eastern sides of the watershed, in Warrick and Gibson Counties. There are also oilfields in parts of Gibson County and Posey County.

Table 1

### WATERSHED CLIMATE DATA (1961-1990) TAKEN AT EVANSVILLE AIRPORT

(Source: Midwestern	Regional Climate	Center, Champaign,	, IL)
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	Temperatures			Precipitation		
Month	Maximum	Minimum	Mean	Mean	High	Low
January	38.9	21.2	30.1	2.66	14,78	0.51
February	43.7	25	34.4	3.12	7.26	0.27
March	55.9	35,7	45.8	4.71	12,84	0.01
April	67.4	45	56.2	4.02	11.83	0.4
May	76.9	54.2	65,5	4.75	13,51	0.59
June	86.2	63.3	74.8	3.49	11.44	0.38
July	89.1	67.5	78.4	4.04	10,32	0.18
August	87.2	64.9	76.1	3.11	8.43	0.13
September	80.7	57.6	69.2	2.97	9.89	0.25
October	69.6	44.7	57.2	2.87	11,19	0.01
November	55.9	36,5	46.2	3.73	9.24	0.2
December	43.6	26,7	35.2	3.67	8.23	0.56
Annum	66.3	45.2	55.8	43.14	64	25.55

- Stream habitat in the mainstem is generally poor. This poor habitat is attributable to channelization for agricultural development and navigation. In 1853 the Wabash and Erie Canal extension was completed through Evansville, forming, at that time, the longest man-made waterway in the Western Hemisphere. The Wabash and Erie Canal crosses the watershed boundary at Francisco. In 1860, after only a few years of use, the southern part of the canal was abandoned, leaving Pigeon Creek without much of its natural meanders, pools or riffles.
- Today, Pigeon Creek is deemed by the Natural Resources Commission to be a navigable waterway from its mouth at the Ohio River upstream 15.8 river miles. Locust Creek, which enters Pigeon Creek one-half mile downstream of the Illinois Central Gulf Railroad Bridge, is also a navigable waterway for its first 1.5 miles. Portions of Little Pigeon Creek, Clear Creek and Baker Creek are also considered navigable waterways.
- Prior to settlement by European immigrants, much of the study area was wetland. Today, there are very few wetlands. There are 14,216 wetland acres in the watershed or about 6%. Table 2 shows acreage of wetlands in each subwatershed of the study area. Forested wetland is the dominant wetland type remaining in the Pigeon Creek watershed.

#### Table 2: wetlands

#### WETLANDS (acres) IN THE STUDY AREA (Source: Indiana GAP Project)

	Subwatershed	Wetland Forest	Wetland Woodland	Wetland Shrubland	Wetland Herbaceous	Wetland Sparsely Vegetated	Water	Percent
- 1	Pigeon - Locust Creek Lower	253	11	26	29	61	50	7%
2	Locust Cr Headwater	62	18	15	0	4.2	86	2.8%
3	Pigeon - Kleymeyer Park	162	9.8	20.9	3.5	19	19	5.6%
- 4	Harper Ditch	454	0	0	14	17.6	73	8.5%
5	Pigeon - Crawford Brandeis	117	0	2.5	0	0	61	3.1%
6	Weinsheimer Ditch	104	0	0	39	10.3	24	2.0%
7	Pigeon - Barnes Ditch	1,586	3.3	140	139	83	452	18.2%
8	Blue Grass Cr - D Wagner	125	0	0	2.8	0	106	5.5%
9	Firlick Ditch	138	0	0	4.5	0	15	3.8%
10	Stubbs Fruedenberg Ditch	115	0	0	27	8.0	27	4.5%
11	Schlensker Ditch	89	0	0	0	11.6	23	2.7%
12	Little Pigeon Creek	265	7.5	26	15	0	108	3.8%
13	Unnamd Trib to Blue Grass Cr	87	0	0	19	15.7	94	4.1%
14	Blue Grass Cr Headwaters	166	0	8.0	7.3	7.4	34	3.6%
15	Clear Branch	2,527	18	404	113	171	474	25%
16	Squaw Creek	529	3.2	79	92	141	355	14%
17	Big Creek - Little Creek	461	0	53	100	48	615	12%
18	Big Creek Headwaters	792	4.7	84	121	101	439	13%
19	Big Creek - Wye	1,056	3.7	191	50	52	31	19%
20	Smith Fork Headwaters	194	0	0	22	44	125	2.6%
21	Smith Fork - Halfmoon Creek	1,001	0	168	73	17.8	72	12.5%
22	Snake Run	448	0	1.7	10	4.5	6.9	3.3%
23	Hurricane Ditch Creek	102	3.1	0	3.0	0	20	1.2%
24	West Fork Creek	67	5.7	5.5	3.5	0	30	0.6%
25	Clear Fork Ditch	169	0	15	21	0	4.9	1.8%
26	Sand Cr - Muddy Fork Ditch	80	0	3.7	10.0	0	1.4	0.8%
	TOTAL	11,149	88	1,243	920	816	3,347	7.5%

#### • Endangered Species

The threatened and endangered species are protected under the Endangered Species Act (16 USC 1531 et seq.) of 1973. The goal of the act is to provide a means whereby the ecosystems upon which endangered and threatened species depend may be conserved and to restore all listed species to the point where their numbers make them viable self-sustaining members of their ecological communities.

We contacted the DNR Division of Nature Preserves with a request for information on the presence of threatened of endangered species and high quality natural communities within the study area. Table 3 lists the threatened and endangered species for the Pigeon Creek watershed by county.

The Division of Nature Preserves also provided data on natural areas and communities in the watershed. These are listed below. These data do not include the recently opened 2,500-acre Blue Grass Fish and Wildlife Area near Elberfeld.

#### Table 3: endangered species

Туре	Species	Common Name	Fed Status	State Status	County
Amphibian	Cryptobranchus alleganiensis alleganiensis	hellbender	88	SE	V
Bird	Botaurus lentiginosus	American bittem	88	SE	W, G
Bird	Ixobrychus exilis	least bittem	88	SE	W, G
Bird	Ardea herodias	great blue heron	88	**	W
Bird	Nyctanassa violacea	yellow-crowned night-heron	88	SE	W
Bird	Circus cyaneus	northern harrier	88	SE	W
Bird	Buteo lineatus	red-shouldered hawk	**	SSC	W, G
Bird	Rallus elegans	king rail	88	SE	G
Bird	Rallus limicola	Virginia rail	**	SE	W
Bird	Bartramia longicauda	upland sandpiper	**	SE	V
Bird	Tyto alba	barn owl	**	SE	W, G
Bird	Asio flammeus	short-eared owl	**	SE	W
Bird	Thryomanes bewickii	Bewick's wren	**	SE	G
Bird	Cistothorus platensis	sedge wren	88	SE	G
Bird	Lanius ludovicianus	loggerhead shrike	88	SE	V
Bird	Dendroica cerulea	cerulean warbler	88	SSC	W
Bird	Helmitheros vermivorus	worm-eating warbler	88	SSC	W
Mammal	Taxidea taxus	American badger	**	SE	G
Reptile	Nerodia erythrogaster neglecta	copperbelly water snake	LTNL	SE	W, G
Crustacean	Orconectes indianensis	Indiana crayfish	88	SSC	V
Insect	Nicrophorus americanus	American burying beetle	LE	SX	V
Insect	Catocala marmorata	marbled underwing moth	**	**	V
Plant	Perideridia americana	Eastern eulophus	88	SE	W
Plant	Krigia oppositifolia	dwarf dandelion	**	ST	V, W
Plant	Catalpa speciosa	Northern catalpa	**	SR	W
Plant	Phacelia ranunculacea	blue scorpion-weed	**	SE	V
Plant	Juglans cinerea	butternut	**	WL	G
Plant	Rhexia mariana var mariana	Maryland meadow beauty	**	SE	V
Plant	Bacopa rotundifolia	roundleaf water-hyssop	**	SE	W
Plant	Vitis palmata	catbird grape	**	SR	V
Plant	Carex socialis	social sedge	**	SR	W,V
Plant	Nothoscordum bivalve	crow-poison	**	SR	W
Plant	Isoetes melanopoda	blackfoot quillwort	**	SE	v

THREATENED AND ENDANGERED SPECIES IN THE STUDY AREA

LE=Federal Endangered, LTNL=Federal Threatened Counties: V=Vanderburgh, W=Warrick, G=Gibson

Table 4: natural areas

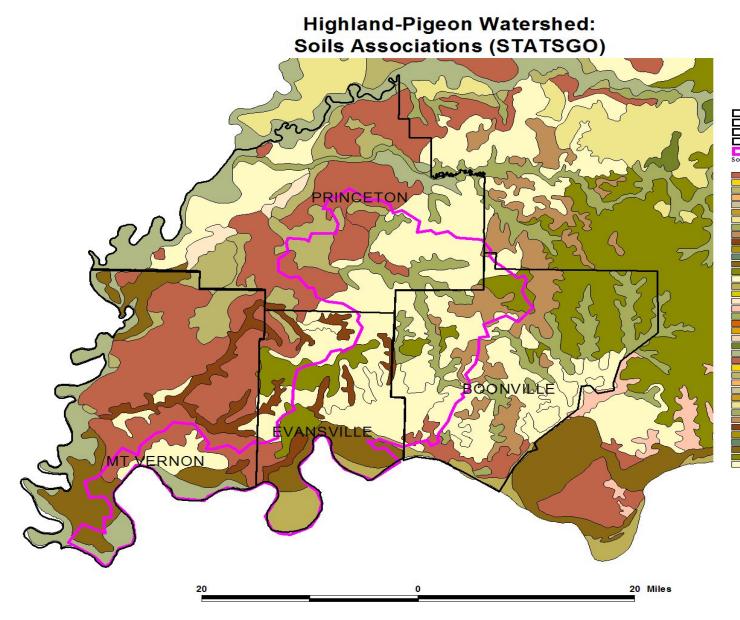
#### NATURAL AREAS AND COMMUNITIES IN THE STUDY AREA (Source: DNR Division of Nature Preserves)

Community	Counties
Wet-Mesic Floodplain Forest	V, G ,P
Dry-Mesic Upland Forest	W, G
Dry Upland Forest	G
Mesic Upland Forest	V

Notes: V=Vanderburgh, W=Warrick, G=Gibson P-Posey

#### • Soils

Soil associations in the study area are mapped on Figure 7. Most soils are silt loams that range from zero to 18% slopes. Within the Pigeon Creek watershed, there are 64,300 acres of highly erodible land, much of which is eroding well above "T", the tolerable limit.



County
Vcounty boundaries.shp
Gibson county boundaries.shp
Wcounty boundaries.shp Sw\_hua14.shp Soils\_statsgo\_sw.shp Map Unit Name ALFORD-SYLVAN-IONA (IN 091) AVA-CINCINNATI-ALFORD (IN081) BLOOMFIELD-PRINCETON-AYR SHIRE (IN 088) CORYDON-CANEYVILLE-GILPIN (IN 113) CRIDER-BAXTER-BEDFORD (IN 112) CROSBY-TREATY-MIAMI (IN013) DUBOIS-OTWELL-PEOGA (IN 097) ELSTON-WAR SAW-SHIPSHE (IN 023) FAIRPOINT-BETHE SDA-ZANE SVILLE (IN 102) FINCASTLE-BROOKSTON-MIAMIAN (IN037) FOX-OCKLEY-WESTLAND (IN026) HAYMOND-WAKELAND-PEKIN (IN080) HICKORY-CINCINNATI-BERKS (IN 109) HOSMER-STOY-HICKORY (IN 095) HO SMER-ZANE SVILLE-STENDAL (IN 092) HUNTINGTON-NEWARK-WOODMERE (IN031) LYLE S-AYR SHIRE -BLOO MFIELD (IN 106) LYLE S-PATTON -HEN SHAW (IN 096) MARK LAND -UNIONTOWN -MCGARY (IN 101) MIAMI-CROSBY-TREATY (IN 040) MIAMI-FIN CASTLE -XENIA (IN 058) MIAMI-MIAMIAN-XENIA (IN 039) MIAMI-STRAWN-HENNEPIN (IN 041) NEGLEY-PARKE-CHETWYND (IN086) NOLIN-HAYMOND-PETROLIA (IN 030) PEOGA-BARTLE-HOSMER (IN098) REE SVILLE-FINCASTLE-RAGSDALE (IN057) REE SVILLE -RAG SDALE -UNION TOWN (IN 064) RENSSELAER-DARROCH-WHITAKER (IN003) RUSSELL-ALFORD-REESVILLE (IN063) SAW MILL-LAWSON -GENESEE (IN029) SELMA-ARMIESBURG-VINCENNES (IN107) STENDAL-BONNIE-BIRDS (IN110) VIGO-SHAKAMAK-AVA (IN105) WAKELAND-HAYMOND-WILBUR (IN082) WELLSTON-BERKS-GILPIN (IN 104) WESTLAND-SLEETH-OCKLEY (IN078) WHEELING-ELKINSVILLE-VINCENNES (IN 114) ZANESVILLE-WELLSTON-GILPIN (IN103) ZIPP-VINCENNES-EVANSVILLE (IN 100)

W K E

Figure 7: soil associations

#### • Topography & Hydrology

Land elevation in the study area ranges from about 340 feet at the Ohio River to 550 feet in some upper reaches of the watershed. Land is generally level in the Ohio River and Pigeon Creek bottomlands and terraces. While slopes are typically gentle, short lengths of slope may be up to 50% in certain upland areas.

The United States is divided and sub-divided into successively smaller hydrologic units. Each hydrologic unit is identified by a unique hydrologic unit code (HUC) consisting of two to fourteen digits based on the multiple levels of classification in the hydrologic unit system. The fourteen-digit level of classification was available for the study area and supplied to Harza by Rick Obenshain, the watershed coordinator. There are 37 subwatersheds in the Highland-Pigeon watershed, and these are the spatial units of diagnostic study in this report. These subwatersheds are delineated in the map on the following page (Figure 8).

#### Highland - Pigeon Watershed: 14 - digit HUC's & Subwatershed Names

1. Locust Cr. Lower 05140202040120 2. Locust Cr. Headwaters 05140202040110 3. Kleymeyer Pk. 05140202040100 4. Harper Ditch 05140202040080 5. Crawford-Brandeis Ditch 05140202040010 6. Weinsheimer Ditch 05140202030060 7. Barnes Dich 05140202030070 8. Wagner Ditch 05140202040060 9. Firlick Cr. 05140202040070 10. Stubbs-Freudenberg Ditch 05140202040040 11. Schensker Dich 05140202040050 12. Little Pigeon Cr. 05140202040090 13. trib. Blue Grass Cr. 05140202040030 14. Blue Grass headwaters 05140202040020 15. Clear Branch 05140202030040 16. Squaw Cr. 05140202030050 17. Big Creek-Little Cr. 05140202030020 18. Big Creek headwaters 05140202030010 19. Big Creek-Wye 05140202030030 20. Smith Fk. headwaters 05140202020060 21. Halfmoon Cr. 05140202020070 22. Snake Run 05140202020050 23. Hurricane Ditch 05140202020030 24. West Fk. Pigeon Cr. 05140202020040 25. Clear Fk. Pigeon Cr. 05140202020020 26. Sand Cr.-Muddy Fk. 05140202020010 27. Eagle Cr. 05140202010020 28. Carpentier Cr. 05140202050010 29. Bayou Cr. 05140202070020 30. Ohio River-Evansville 05140202010030 31. Logsdon-Stroud Ditch 05140202070010 32. Diamond Island 05140202070030 33. Cypress Slough-Dixon Ditch 05140202070040 34. McFadden Cr. 05140202070050 35. Beaverdam Cr. 05140202070060 36. Hovey ILk.-Bayou Drain 05140202070080 37. Little Pitcher Lk. 05140202100040 20 0

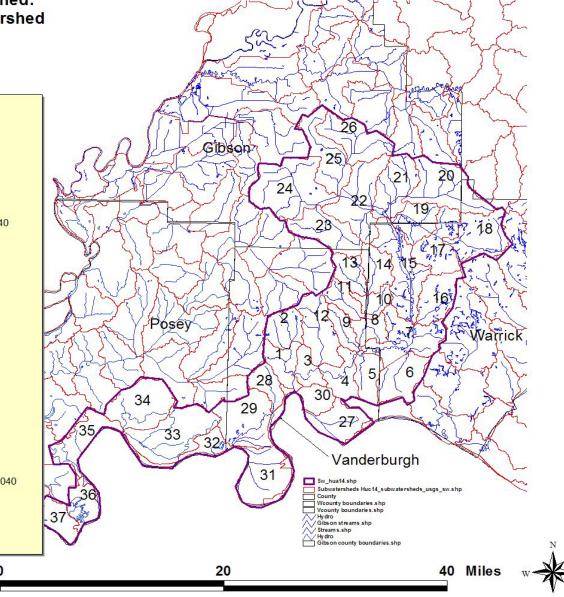


Figure 8: 14-digit subwatersheds

Drainage

The Indiana statute at IC 36-9-27 contains the County Drainage Code. This law authorizes county drainage boards to regulate certain drains. The intent of this law is to increase the hydraulic efficiency of waterways and control upstream ponding and flooding. The county surveyor is the technical authority on the construction, reconstruction, and maintenance of all regulated drains or proposed regulated drains in the county. The County Drainage Code requires the county surveyor to classify regulated drains in the county as:

1. Drains in need of reconstruction;

2. Drains in need of periodic maintenance; or

3. Drains that should be vacated.

The county drainage boards across the state fund reconstruction and maintenance of regulated drains. Among the board's duties, as defined in the statute, is the reconstruction of regulated drains that do not properly function and may require erosion control or grade stabilization structures. An example project undertaken under this authority is the Gibson County Drainage Board's reshaping of nearly six miles of Pigeon Creek and West Fork in 2000. This project, while justified on the basis of flood control, exemplifies continued single objective management of water courses in the watershed and abuse of ecological consequences.

The County Drainage Code also offers opportunities for financing of watershed projects. We believe this regulatory vehicle is considerably underutilized in the state for environmental change due to the traditional use of these funds for drainage purposes only.

Since settlement by Europeans, the watershed landscape has been dramatically altered. Over the years, settler activities have changed the dynamic equilibrium of the creek and its upslope systems. The cumulative effect of these changes has been degradation of water quality, loss of floodplain storage, diminished wildlife populations, and decreased aesthetic and recreational values. We have recommended stream corridor restoration efforts in nearly all subwatersheds in the Pigeon Creek watershed. This restoration is a complex endeavor that begins with the recognition that human-induced changes that begun nearly two centuries ago have damaged the structure and function of the ecosystem and prevent the recovery of the watershed to a sustainable condition. These human-induced changes include:

- Creation of the Wabash and Erie Canal
- Channelization of first and second order streams to facilitate agricultural drainage
- Draining of wetlands
- Dredging, clearing and snagging of Pigeon Creek to reduce flooding
- Increased watershed imperviousness
- Mineral extraction and massive landscape alteration
- Loss and/or alteration of vegetative cover across the watershed
- Addition of nutrients and other pollutants to the streams

Among the net results of these alterations are:

- A watershed that is 100% impaired for aquatic life support due to poor physical habitat
- · Poor water quality throughout the watershed
- High rates of soil loss
- Near extirpation of nine species of mussels

NRCS (1998) presents guidelines on restoration of stream riparian processes. The massive investment over the last 200+ years in separating the stream from its watershed will require a similar level of investment to reverse, but we believe that will prove economically attractive to do so. The economic benefits of environmental restoration can prove attractive, if the investments are well founded and prudent.

Land Use

The City of Evansville was founded on March 27,1812 by Colonel Hugh McGary. On January 7, 1818, Vanderburgh County was created. In 1837, the first cabinet-making shop and steam-powered sawmill opened, in anticipation of the completion of the Wabash and Erie Canal. By 1900, Evansville had over 300 iron, steel and woodworking companies and had become a center for furniture manufacturing. Automobile production and refrigerator manufacturing dominated the local economy by the mid 1920's. The effects of the Great Depression were lessened with the discovery of oil in the area in the early 1930's and the gearing up for World War II. In 1942, the Evansville Shipyard was established and factories were converted to build airplanes for the war effort. After the war the demand for automobiles, household appliances and farm equipment helped to maintain employment and create a network of industrial suppliers and service shops.

During the 1950's, many auto, refrigerator and stove manufacturers closed their doors or were sold, while other industrial concerns relocated to Evansville. Currently, Evansville is home to a large number of plastics related companies. Other notable companies are involved in pharmaceutical, aluminum sheet, food products, and home appliance production.

The Evansville IN-Henderson KY Metropolitan Statistical Area (MSA) consists of Vanderburgh, Posey, Warrick counties in IN and Henderson County, KY. The Evansville MSA ranks 114th in population nationwide. As a city, Evansville ranks 130th in the nation and is the 3rd largest city in the state of Indiana. The MSA has 120,962 households, while the city has 55,144 households. Evansville is a regional economic center, as evidenced by the location of three major hospitals, two full service universities and a vibrant retail and banking community. Evansville has a 1990 population of 126,272 person residing in 53,058 households. Other communities in the watershed include Chandler, Fort Branch, Haubstadt, and portions of Owensville and Princeton.

Evansville supplies its residents with drinking water from collection and treatment of surface water and ground water. Water service is provided to Evansville by the City's Water and Sewer Utility Department. Sources include the Ohio River and an auxiliary deep well. Filtration system capacity is 60.0 million gallons per day (mgd) to meet current peak demands of 35 mgd. The Evansville Water & Sewer Utility also operates two sewage treatment facilities with a capacity 38.6 mgd. Average daily wastewater flows are 28 mgd. EWSU uses a land application system to dispose of its sludge. While EWSU discharges treated wastewater to the Ohio River, many of the smaller upstream communities, as well as some industrial facilities, are permitted to discharge treated wastewater to Pigeon Creek.

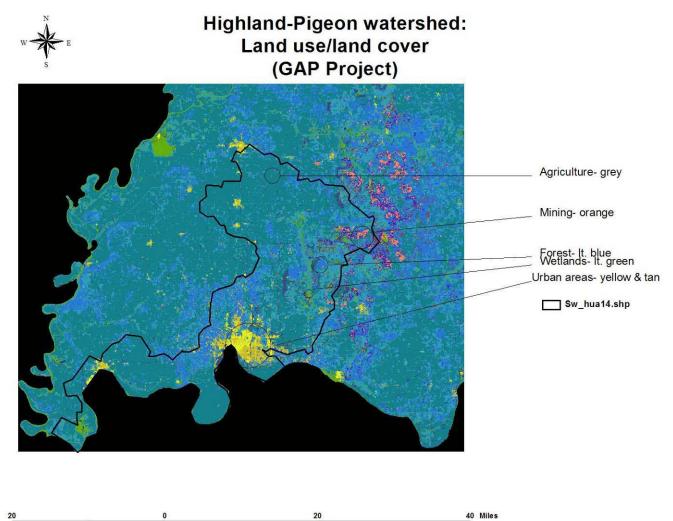
Our land use/land cover data were derived from the Indiana GAP Project (1998). The interagency project, led by the U.S. Fish and Wildlife Service, used Landsat Thematic Mapper images to develop the land cover dataset. The images reflect 1994 conditions. About two-thirds of the study area is classified as agricultural lands. Urban land is approximately 4% of the watershed. A more detailed land use analyses was made of McFadden Creek subwatershed, which is 82% agriculture use.

Land Use	Area (ac)	Percentage
Other Non-vegetated	8,920	4%
Urban High Density	3,512	1%
Urban Low Density	7,335	3%
Agriculture Row Crop	113,055	48%
Agriculture Pasture/Grassland	46,728	20%
Shrubland	0	0%
Woodland	2315	1%
Forest Deciduous	32,106	14%
Forest Evergreen	1,354	0.6%
Forest Mixed	2,339	1%
Wetland Forest	11,149	5%
Wetland Woodland	88	0.04%
Wetland Shrubland	1,243	0.5%
Wetland Herbaceous	920	0.4%
Wetland Sparsely Vegetated	816	0.3%
Water	3,347	1%
Total	235,226	100%

Table 5: land use in Pigeon Creek watershed LAND USE IN THE PIGEON CREEK WATERSHED

(Source: Indiana GAP Project, 1998)

Figure 9: land use/land cover



- Evansville has developed into a center for manufacturing, warehousing, wholesaling and retailing, as well as
  insurance, finance and health services. The Evansville area is known for the production of appliances,
  nutritional products, pharmaceuticals, prepared foods, aluminum sheet and ingot processing, auto glass, coal
  and oil production, plastics including finished product, resins and pellets. The surrounding agricultural interests
  focus on production of corn, soybean and wheat.
- The Evansville area has a diversified economy. Total non-agricultural wage and salaried employment in the Evansville area has risen from 125,200 in 1984 to 138,700 in 1990, an increase of 10.8 percent. Manufacturing employment over the past ten years has decreased, but employment in the service economy has increased, paralleling a national trend.
- Public Lands: Two Indiana Dept. of Natural Resources managed preserves exist in Highland Pigeon watershed: Hovey Lake, in southwestern Posey Co.; and Bluegrass Fish & Wildlife Area in northwestern Warrick Co., and several tracts of Classified Forest (see map next page- Figure 10)
- Agriculture: The study area depends upon agriculture for much of its well-being. Recent agricultural statistics show local agricultural trends following much of the State and the nation, that is, a trend towards fewer, but larger farms with greater returns. Under this trend, farms offer diminished employment opportunities and greater efficiency.

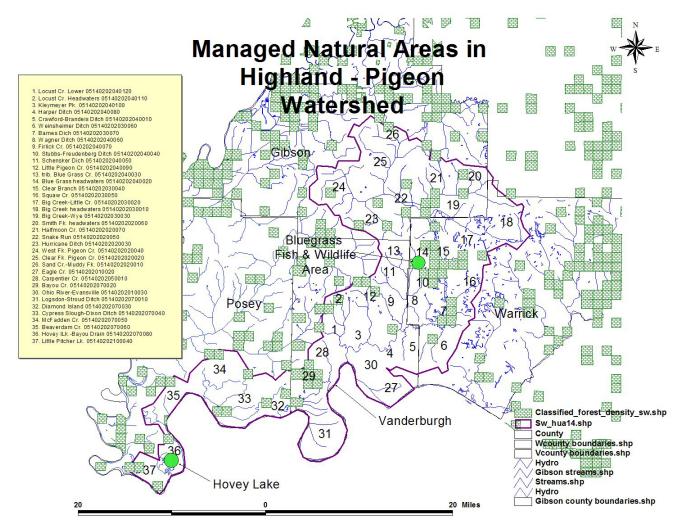
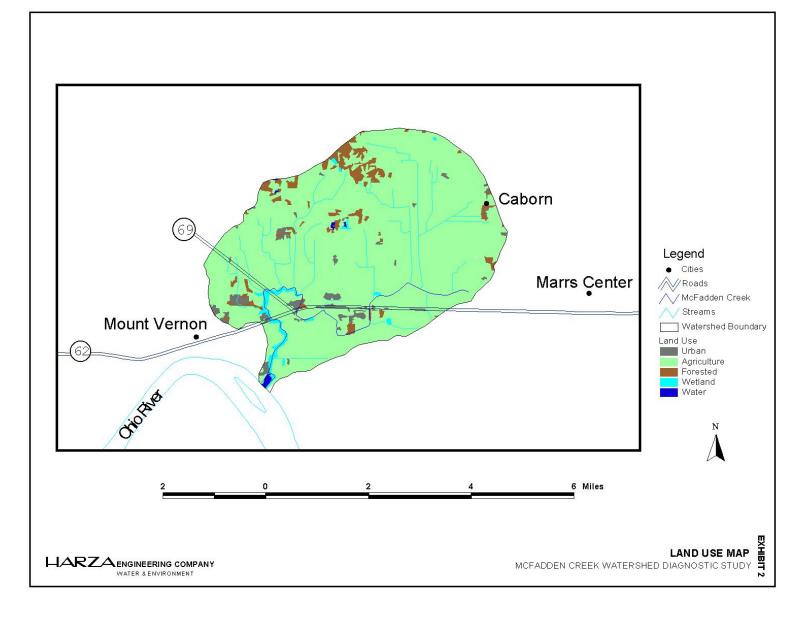


Figure 10: Managed natural areas

McFadden Creek Watershed

Urban Agriculture Row Crop Agriculture Pasture/Grassland Upland Forest and Woodlands Wetland Forest and Woodlands Other Wetlands and Water Other Non-vegetated Total Area (acres) percentage 191 1.6% 9,815 82% 1,070 8.9% 534 4.4% 157 1.3% 70 0.6 % 137 1.1% 11,974



Current and Past Conservation Efforts in watershed:

Several conservation efforts are currently in place in the watershed. The USDA programs, including the Conservation Reserve Program (CRP) and Environmental Quality Incentives Program (EQIP), have seen an increase in applicants and practices established in the Highland – Pigeon watershed over the past four years. This increase can be attributed to the efforts of Pigeon-Highland Watershed Steering Committee coordinator, Rick Obenshain. Obenshain was instrumental in contacting agricultural landowners, and encouraging them to install Best Management Practices (BMP's). Cost share was available through an IDEM Section 319 grant for BMP's, with the result being: 41 acres of filter strip, 5.8 ac. field border, 7 grassed waterways, 1.6 ac. of trees, 2275 ft. of fencing, 1 pipe structure, 2 livestock watering systems, 1 compost pad, 7 water & sediment control basins (WASCoB's) and 1.2 acres of wildlife habitat. Many more practices were installed through CRP and EQIP, using USDA cost share. With the end of IDEM Section 319 grant, ARN 00-86, funding will cease for Obenshain's position, leaving no one to "sell" conservation in the watershed. Natural Resource Conservation Service (NRCS) employees, who have the technical responsibility for CRP and EQIP, do not have time to actively solicit participation in these programs. Fortunately, landowners who have had success with BMP's have become the best sales tool, and new participants are signing up due to this peer influence. See Appendix G for "Conservation Practices Installed 1999-2002".

A Lake and River Enhancement (LARE) program is in effect in the McFadden Creek subwatershed (#34). Funded by Indiana Dept. of Natural Resources, using the money generated through boat registrations, the program has been highly successful. See Appendix G for maps.

A previous LARE grant was in effect for Smith Fork-Halfmoon Ditch subwatershed in the mid-1990's. Some work remains to be done there, however, as a large swine operation- the only livestock in the subwatershed- continues to cause water quality problems. The SW Regional Office of IDEM has been attempting to work with the owner to rectify the situation.

## <u>3. Establishing Benchmarks:</u> Identify water body impairments, water quality threats, and baseline data for water quality and biological community parameters.

- Existing data: Sufficient baseline chemical, biological and habitat assessment data have been collected in order to make management decisions for the majority of the eight-digit watershed. One set of data was collected by Harza Engineering Co. as part of the "Diagnostic Study of Pigeon Creek", 1999-2000. This study was funded by Indiana Dept. of Env. Mgt.(IDEM), Indiana Dept. of Natural Resources(IDNR) LARE (lake and river enhancement)program and the City of Evansville Water & Sewer Authority. A Quality Assurance Project Plan (QAPP) was approved for the monitoring portion of the Diagnostic Study under IDEM ARN 99-215. In addition to monitoring nonpoint source pollution, the Harza study also sampled discharges from Evansville's NPDES-permitted combined-sewer overflows. Harza's data covers Pigeon Creek and tributaries in Gibson, Warrick & Vanderburgh counties, and McFadden Creek in Posey County. IDEM Water Quality Assessment Branch also collected chemical data in 1999 and 2000- on the main stem of Pigeon Creek in Vanderburgh County. IDEM's analyses included metals and pesticides/herbicides. See Appendix A for the raw data, sampling dates and sample site locations.
- A second data set was collected by Pigeon-Highland Watershed Steering Committee's watershed coordinator, Rick Obenshain. Obenshain collected and analyzed chemical, biological and habitat assessment data from November 2001 to June 2003 (this document includes data collected up to April 2003). The data were quality-assured under a QAPP developed for IDEM grant ARN 00-86. See Appendix B for the raw data, sampling dates and sample site locations.
- Summary of Data: The data from Harza's Diagnostic Study and Pigeon-Highland Watershed Steering Committee's monitoring reveals that human-induced changes to the watershed have resulted in degradation of water quality, loss of floodplain storage, diminished wildlife populations, and decreased aesthetic and recreational values. Specifically, the watershed upstream of Evansville is subject to nonpoint source pollution from agricultural, mining and other land use detrimental to stream health. Within the City of Evansville, Pigeon Creek is impacted by combined-sewer overflows (CSO) which contribute nutrients and bacteria to the stream. See Appendix C for CSO data summary and recommendations.
- Sediment from erosion is indicated as the greatest pollutant problem. The Harza study estimated that the sediment yield in the Pigeon Creek watershed was 29,712 tons per year. Well correlated to the sediment yield is the phosphorous loading of 39,218 kg per year. Other indicators of poor water quality were dry-weather *E. coli* bacteria levels well-above the state standard, high nitrate and phosphate levels, and poor diversity among the macroinvertebrates sampled.
- Pigeon-Highland Watershed Steering Committee's data reflected similar conditions. Obenshain was able to witness first-hand the destruction of habitat and sedimentation problems associated with development of land in the watershed area. In the spring of 2003, extremely high nitrate levels were detected at several monitoring points- in the absence of known human or animal waste discharges. Further testing revealed that the nitrate source was farm field drainage tile. Obenshain theorizes that the corn crop of 2002, which was well below average in yield in many areas of the watershed, failed to utilize the available nitrogen in the soil. With 12+ inches of snow and significant rain events early this year, the nitrate was subsequently leached through the soil into the groundwater, and discharged through the drainage tiles into the creeks.
- In a separate study of McFadden Creek watershed (05140202070050)in Posey County, both Harza and Pigeon-Highland Watershed Committee produced quality-assured data. Water quality analyses found: supersaturated oxygen levels, generally high nutrient and suspended solids concentrations, and high fecal coliform counts. The Harza study noted the following trends from downstream to upstream reaches: increased dissolved oxygen supersaturation, increased nitrate nitrogen concentrations and degraded physical habitat- particularly in the substrate and riparian ratings. See Appendix D for raw data, sampling dates & sample site locations.

Summary of Harza's data from McFadden Creek watershed:

Examined on a stream-reach scale, the data indicates that nonpoint source pollution from agriculture (82% of land-use) is resulting in degradation of water quality. In addition, the riparian zones, especially the upper reaches, have been cleared of all trees- resulting in diminished wildlife values, lack of woody debris in the channel and higher stream temperatures. Higher than normal conductivity readings at some sample sites may indicate brine contamination from oil wells in the watershed. There are three livestock operations in the watershed: one turkey farm, one swine operation and a dairy that all warrant attention. In addition, illegal disposal of solid waste is a problem in some areas of McFadden Creek.

- Pigeon-Highland Watershed Steering Committee's data on Carpentier Creek (05140202050010)revealed widely-fluctuating E. coli bacteria levels: 0 to 5400 col/100 ml, occasional alkaline spikes in pH, and normal nutrient and sediment loads. However, this urban subwatershed is under tremendous pressure from development, and in fact, the riparian habitat at the sampling location was recently completely removed by a developer. *See Appendix B for raw data.*
- IDEM's Assessment Branch also sampled in the Bayou Creek subwatershed (05140202070020). Their data, from the summer of 2000, indicate critically low dissolved oxygen levels and lower than normal pH. Volunteer data (non quality-assured), from Hoosier Riverwatch taken at two sites upstream from IDEM's site indicates phosphate enrichment, E. coli bacteria counts from 0 to 3600 col/100 ml, poor macroinvertebrate pollution tolerance scores, and poor habitat scores, indicating impaired water quality and habitat. See Appendix E for the raw data and sample site locations.
- A WRAS (watershed restoration action study) was completed by USDA-Natural Resources Conservation Service employee Andy Ertel in 2000. The study found similar conditions within the watershed without the detail of the Harza data.
- Impaired streams indicated in IDEM's 303(d)& 305(b) lists: Nine 14-digit subwatersheds of Pigeon-Highland watershed appear in IDEM's 2002 303(d) list: Crawford Brandeis Ditch (Vand) (PCB's); Pigeon Cr.-Lower Locust Cr.(Vand) (PCB's); Harper Ditch (Vand) (PCB's,low dissolved oxygen, high TDS, pathogens); Pigeon Creek at Kleymeyer Park (Vand)(PCB's, sulfates, TDS,pathogens and low dissolved oxygen); and the Ohio River from the confluence of the Green River to the confluence of the Wabash River (Vand, Posey)(PCB's, pathogens, dioxin); Hovey Lake(Posey) (PCB's); Squaw Creek (Warrick) (sulfates, TDS). It should be noted that PCB's are "legacy" contaminants usually found in the sediment of the affected water bodies. "Legacy" means that the original source of the water body. The 305(b) report states that in the Ohio River Basin- of which Pigeon-Highland is a subbasin- 67% of stream miles do not provide aquatic life support. This is well documented for Pigeon-Highland watershed in the data we have.
- Point source discharges: Evansville is the largest community in the watershed, having a 1990 population of 126,272 person residing in 53,058 households. Other communities in the watershed include Chandler, Elberfeld, Fort Branch, Haubstadt, and portions of Owensville and Princeton. Many of these communities, as well as some industrial facilities, are permitted to discharge treated wastewater to directly to Pigeon Creek or its tributaries (Table 23, Exhibits 18 and 19). In this section we qualitatively evaluate the effects of these discharges on watershed health. Where possible, we relate NPDES compliance with our bioassessment data. The EWSU CSOs are addressed in detail in Appendix C.

#### NPDES DISCHARGES TO PIGEON CREEK

(Source: USEPA Permit Compliance System)

FACILITY	RECEIVING WATER	HUC	NPDES
Indiana Hardwoods, Kimball Intern'l	Pigeon Cr via Stollberg Ditch via Ditch.	05140202030070	IN0058530
EWSU - Westside Plant	Ohio R (except certain CSOs)	05140202040	IN0032956
EWSU - Eastside Plant	Ohio R (except certain CSOs)	05140202040	IN0033073
Chandler Municipal WWTP	Pigeon Cr via Stollberg Ditch	05140202030070	IN0020435
Haubstadt Municipal WWTP	West Fork Pigeon Cr via Haubstadt (aka Hurricane) Ditch	05140202020030	IN0021482
Solar Sources Inc Pit 12	Smith Fork Cr Honey Cr Rough Cr.	05140202020060	IN0047970
Darmstadt Municipal WWTP	Pigeon Cr via Little Pigeon Creek	05140202040090	IN0052990
Lynnville Municipal WWTP	Pigeon via Big Cr via Mill Cr	05140202040010	IN0040282
Elberfeld Municipal WWTP	Pigeon Cr via Bluegrass Creek	05140202040020	IN0020788
Warrick Cnty Coal-Lynnville	Pigeon Cr via Big Cr via Plum B	05140202040010	IN0047287
Cargill Meat Products	West Fork Pigeon Creek via Toops Ditch	05140202020040	IN0001686
Fort Branch Municipal WWTP	West Fork Pigeon Creek	05140202020040	IN0022896
Mid-State Rubber Products	Clear Fork Pigeon Creek via storm sewer	05140202020020	IN0004880

### Stollberg Ditch

Stollberg Ditch drains a portion of Hydrologic Unit Code (HUC) 05140202030070. We included this stream in our bioassessment. Stollberg Ditch was found it to contain some of the highest TSS, BOD, phosphorus, nitrate and ammonia nitrogen concentrations, and some of the lowest DO levels among sites we surveyed in the watershed. We also found low benthic diversity and an absence of sensitive macroinvertebrate taxa (mayflies, stonefiles, caddisflies). Stollberg Ditch is the receiving water for two NPDES discharges: Chandler Municipal Wastewater Treatment Plant (WWTP) and Indiana Hardwoods. Chandler WWTP was issued a new NPDES permit on June 18, 1999 to discharge 1.8 million gallons per day of treated sanitary wastewater into Stollberg Ditch. The facility is currently being upgraded to a major plant, with construction nearing completion. According to the new permit, effluent parameters to be limited and/or monitored include flow, carbonaceous BOD5, total suspended solids, ammonia nitrogen, pH, dissolved oxygen, total residual chlorine and *E. coli*. The Chandler WWTP has a history of being overloaded, bypassing of sewage, and regular noncompliance reports (USEPA Permit Compliance System).

Indiana Hardwoods, of Kimball International, Inc. is a manufacturer of hardwood veneers and plywood. Indiana Hardwoods also has a permit to discharge to Stollberg Ditch. Permit IN0058530 expires December 31, 2000 (has since been renewed). According to the Permit Compliance System, their wastewater is from the washing of logs in the yard. They are required to monitor pH, ammonia nitrogen, flow and carbonaceous BOD5. The facility has an apparently good compliance record, with two reportable noncompliance events recorded between March 1996 and July 2000.

### West Fork Pigeon Creek

Two municipal and one industrial point source discharges are permitted in this drainage. The Haubstadt Municipal WWTP discharges to Haubstadt Ditch, a tributary of Hurricane Ditch, HUC 05140202020030, which drains to the West Fork Pigeon Creek HUC 05140202020040. The Town of Haubstadt WWTP was issued a new NPDES Permit, No. IN0021482, in November 1999 to discharge 0.81 million gallons per day of treated sanitary wastewater into Haubstadt Ditch. HC1 was one of our bioassessment sites, downstream of the Haubstadt WWTP. We found high concentrations of nitrate, phosphorus and coliform bacteria. The RBP results included very low numbers of sensitive taxa at HC1, a lack of shredders and a dominance of filterers. The permit requires that certain effluent parameters be limited and/or monitored at the WWTP: flow, carbonaceous BOD, total suspended solids, ammonia nitrogen, pH, dissolved oxygen and total residual chlorine. In July 2000, the Town approved IDEM-mandated upgrades to the WWTP to reduce wet weather overflows and to improve effluent quality. IDEM required the upgrades due to the Haubstadt WWTP's history of regular noncompliance reporting. This facility has completed upgrades to treatment processes.

The Town of Fort Branch WWTP discharges to the West Fork Pigeon Creek (Permit No. IN0022896). This WWTP was issued a new permit on July 31, 1998 to discharge 0.655 million gallons per day of treated sanitary wastewater into the West Fork of Pigeon Creek. It is a minor municipal wastewater treatment facility, and is required to monitor and or limit the following effluent parameters: flow, carbonaceous BOD, total suspended solids, ammonia nitrogen, dissolved oxygen, total residual chlorine and pH. There are sanitary sewer overflows in this system during wet weather. Since the new permit was issued, the permittee has reported four noncompliance events. We also had bioassessment sites on the West Fork Pigeon Creek. We found supersaturation DO, high concentrations of coliform bacteria, and nitrate. PHWSC monitored upstream and downstream from this plant and found similar results, although the treatment plant does not seem to be the main source of phosphorous in West Fork.

Cargill Processed Meat Products, of Fort Branch, was issued a new NPDES permit on May 14, 1999 (IN0001686). The permit allows the owner to discharge 0.272 million gallons per day of meat products processing wastewater into Toops Ditch, tributary to West Fork of Pigeon Creek. The permit requires the owner to limit or monitor the following effluent parameters: flow, BOD5, total suspended solids, oil and grease, ammonia nitrogen, fecal coliform bacteria, total residual

chlorine and pH. The facility is apparently well operated, without reports of noncompliance in the EPA's Permit Compliance System. The meat processing plant has since been closed, but a hog transfer station is still active at the site. PHWSC found no evidence of improper discharge from the site.

### **Clear Fork-Pigeon Creek**

Mid-State Rubber Products, Inc. is in Princeton, IN. This industrial concern was issued a NPDES storm water permit on June 7, 1999 (IN0004880). The permittee manufactures molded, extruded, and lathe-cut mechanical rubber goods. The discharge is to the Clear Fork branch of Pigeon Creek on the south side of Princeton.

### **Big Creek**

On April 27, 1998, NPDES Permit No. IN0040282 was renewed for the Town of Lynnville. The permit allows the WWTP to discharge 0.1 million gallons per day of treated sanitary wastewater into an unnamed tributary to Mill Creek, which discharges to Big Creek (HUC 05140202040010) in Warrick County. The facility is considered a minor municipal wastewater treatment plant. The permit requires the following effluent parameters to be limited and/or monitored: flow, carbonaceous BOD5, total suspended solids, ammonia nitrogen, dissolved oxygen, pH and total residual chlorine. Review of the EPA's Permit Compliance System database indicates two noncompliance reports since the permit was renewed.

Warrick County Coal had an NPDES permit to discharge to Big Creek, Permit No. IN0047287. The Permit Compliance System no longer includes this permit, so it has likely been abandoned.

### Bluegrass Creek

Bluegrass Creek is the receiving water for Elberfeld WWTP, located in HUC 05140202040020. The facility is permitted to discharge 0.3 millon gallons per day of treated municipal wastewater to Bluegrass Creek. The permit requires the following effluent parameters to be limited and/or monitored: flow, carbonaceous BOD5, total suspended solids, ammonia nitrogen, dissolved oxygen, pH and total residual chlorine. While the facility has a poor compliance record, with numerous noncompliance reports in the EPA's Permit Compliance System database, the bioassessment sites on Bluegrass Creek did not indicate significant impairment. Elberfeld's WWTP is currently being upgraded.

### Lower Pigeon Creek

While the EWSU wastewater treatment plants discharge to the Ohio River, the sewer system carries both stormwater and wastewater, and there are nine combined sewer outfalls that discharge to Pigeon Creek during wet weather. These discharges are permitted under NPDES Permits IN0032956 and IN0033073, which require the preparation of a Stream Reach Characterization Evaluation Report (see Appendix C) evaluating the impacts of these CSOs.

- 4. <u>Identifying Problem Causes & Stressors:</u> Identify known or probable causes of water quality impairments and threats. Stressors may include specific pollutants, changes in land use, hydrologic changes, and other factors.
- The Harza Diagnostic Study of Pigeon Creek surveyed the physical habitat, water quality and benthic community at 36 sites in the watershed. The 36 survey sites were selected to represent the 26 subwatersheds (14-digit hydrologic unit codes) in the Pigeon Creek study area. The physical habitat survey method used was the same as that used by IDEM in its surface water assessment program, the Qualitative Habitat Evaluation Index (QHEI). All sites surveyed failed to meet IDEM's QHEI score for full support of aquatic life, indicating a watershed-wide need for improved physical habitat. Water samples were collected for analysis of nutrients, suspended solids, coliform bacteria, and other parameters. The Rapid Bioassessment Protocol, a standardized assessment tool developed by the U.S. Environmental Protection Agency (USEPA), was performed to evaluate the health of the macroinvertebrate community in streams of the watershed. One of the metrics in that protocol is the modified Family Biotic Index (FBI), developed to detect organic pollution. The FBI is a product of pollution tolerance values for family levels and the quantity of individuals within each family. Key indicators of stream biotic integrity were judged to be coliform bacteria levels, nutrient concentrations, suspended solids concentrations, substrate siltation scores and the FBI. The FBI was selected as the key benthic indicator as it incorporates both diversity and pollution tolerance.

Using these five key stream biotic integrity health variables, we ranked the 36 monitoring sites into four groups. The more healthy subwatersheds are those included in the first quartile and warrant protection against degradation: Smith Fork (subwatersheds 20 and 21),Clear Fork Pigeon Creek (subwatershed 25) Little Pigeon Cr.(subwatershed 12) and Big Creek (subwatersheds 17, 18 and 19). Sites in the fourth quartile are considered the most degraded sites.

First Quartile		Second Quartile		Third Quartile		Fourth Quartile	
	Water		Water	Site	Water	Site	Water
Site	Body	Site	Body		Body		Body
	Smith		Pigeon				Hurricane
SF3	Fork	PC4	Creek	WF2	West Fork	HC1	Creek
			Pigeon				Pigeon
BG1	Big Creek	PC5	Creek	WF3	West Fork	PC8	Creek
			Pigeon		Pigeon		Bluegrass
BG2	Big Creek	PC12	Creek	PC13	Creek	BC3	Creek
	Pigeon		Squaw		Pigeon		Weinshei
PC15	Creek	SC1	Creek	PC1	Creek	WD1	mer Ditch
	Smith				Pigeon		Pigeon
SF1	Fork	WF1	West Fork	PC3	Creek	PC7	Creek
	Smith		Pigeon		Bluegrass		Bluegrass
SF2	Fork	PC2	Creek	BC1	Creek	BC2	Creek
					Little		
	Pigeon		Pigeon		Pigeon		Pigeon
PC14	Creek	PC11	Creek	LP1	Creek	PC6	Creek
	Sand		Pigeon		Locust		Pigeon
SA1	Creek	PC16	Creek	LC2	Creek	PC9	Creek
	Little						
	Pigeon		Locust		Unnamed		Stollberg
LP2	Creek	LC1	Creek	UN1	Tributary	SD1	Ditch

### SOURCES OF POLLUTANTS

- Permitted point sources include EWSU's eight CSO discharges to lower Pigeon Creek, five industrial discharges, and six municipal wastewater treatment plants (WWTP). The CSOs are addressed under the context of the SRCER (Appendix C). The five industrial discharges appear to be minor contributors of pollutants to Pigeon Creek, with generally good compliance records. In general, the municipal WWTPs in the watershed do not have acceptable performance records and require expansion, upgrading, and/or additional operator training. Three municipal WWTPs are currently being upgraded, but more should be studied for possible upgrade or expansion.
- Point source discharges: Evansville is the largest community in the watershed, having a 1990 population of 126,272 person residing in 53,058 households. Other communities in the watershed include Chandler, Elberfeld, Fort Branch, Haubstadt, and portions of Owensville and Princeton. Many of these communities, as well as some industrial facilities, are permitted to discharge treated wastewater to directly to Pigeon Creek or its tributaries. In this section we qualitatively evaluate the effects of these discharges on watershed health. Where possible, we relate NPDES compliance with our bioassessment data. The EWSU CSOs are addressed in detail in Appendix C.

• The Chandler WWTP has a history of poor compliance, but has been upgraded, so pollutant discharges from this point source may be reduced at the present.

• The Haubstadt WWTP also has a history of poor compliance. At the time of Harza's Diagnostic Study, there were still some indications of operational problems. This WWTP has also being upgraded to reduce wet weather overflows and improve effluent quality.

• The Fort Branch WWTP also has noncompliance reports to its records. We measured high coliform bacteria concentrations, high nitrates, ammonia and supersaturated dissolved oxygen conditions downstream of this facility. Plans for expansion or upgrading have been talked about for several years, but no action for improvement has been taken.

• The Elberfeld WWTP has numerous noncompliance reports in the EPA's Permit Compliance System database. It is currently being expanded.

Major nonpoint sources of pollutants to the watershed are row crop agriculture, mined lands, and urban runoff. Cropland area in the watershed has been reasonably constant since 1997. Watershed wide, conservation tillage systems were used on 25% of cropland in 1997, 16% of cropland in 1998, and 33% of cropland in 2000. Data on the conservation tillage in the watersheds are insufficient to statistically demonstrate trends. In the year 2000, the Warrick County portion of the study area had the highest rate of conservation tillage adoption, with 51% of its cropland in some type of conservation tillage.

We prepared a model of agricultural nonpoint source sediment and phosphorus pollution in the Pigeon Creek watershed using the best available data. The details of our estimates are tabulated below.

### Table 9: annual sediment yield

Subwatershed	Annual Yield	Area (acres)	Unit Areal Loading (tons/acre)
1. Locust Creek Lower	294	6,101	0.05
2. Locust Creek Headwaters	501	6,497	0.08
3. Kleymeyer Park	9	4,176	0.00
4. Harper Ditch	118	6,544	0.02
5. Crawford Brandeis Ditch	321	5,903	0.05
6. Weinsheimer Ditch	1,559	9,103	0.17
7. Barnes Ditch	759	13,216	0.06
8. Dennis Wagner Ditch	236	4,231	0.06
9. Firlick Creek	205	4,171	0.05
10. Stubbs Fruedenberg Ditch	194	3,911	0.05
11. Schlensker Ditch	377	4,622	0.08
12. Little Pigeon Creek	308	11,209	0.03
13. Unnamed Trib to Bluegrass	370	5,247	0.07
14. Bluegrass Creek Headwaters	448	6,190	0.07
15. Clear Branch	939	14,582	0.06
16. Squaw Creek	846	8,543	0.10
17. Big Creek - Little Creek	878	10,524	0.08
18. Big Creek Headwaters	1,623	11,604	0.14
19. Big Creek – Wye	465	7,117	0.07
20. Smith Fork Headwaters	1,148	14,573	0.08
21. Smith Fork - Halfmoon Cr	832	10,672	0.08
22. Snake Run	1,301	14,449	0.09
23. Hurricane Ditch Creek	2,327	10,420	0.22
24. West Fork Creek	6,712	19,064	0.35
25. Clear Fork Ditch	5,299	11,359	0.47
26. Sand Creek - Muddy Fork	1,643	11,200	0.15
TOTAL	29,712	235,228	

### SUBWATERSHED ANNUAL SEDIMENT YIELD (tons)

Subwatershed	Load (kg)	Area (acres)	Unit Areal Loading (kg/acre)
1. Locust Creek Lower	388	6,101	0.06
2. Locust Creek Headwaters	662	6,497	0.10
3. Kleymeyer Park	12	4,176	0.00
4. Harper Ditch	156	6,544	0.02
5. Crawford Brandeis Ditch	424	5,903	0.07
6. Weinsheimer Ditch	2,058	9,103	0.23
7. Barnes Ditch	1,002	13,216	0.08
8. Dennis Wagner Ditch	312	4,231	0.07
9. Firlick Creek	271	4,171	0.06
10. Stubbs Fruedenberg Ditch	255	3,911	0.07
11. Schlensker Ditch	498	4,622	0.11
12. Little Pigeon Creek	406	11,209	0.04
13. Unnamed Trib to Bluegrass Cr	488	5,247	0.09
14. Bluegrass Creek Headwaters	591	6,190	0.10
15. Clear Branch	1,239	14,582	0.08
16. Squaw Creek	1,117	8,543	0.13
17. Big Creek - Little Creek	1,159	10,524	0.11
18. Big Creek Headwaters	2,142	11,604	0.18
19. Big Creek – Wye	614	7,117	0.09
20. Smith Fork Headwaters	1,515	14,573	0.10
21. Smith Fork - Halfmoon Creek	1,098	10,672	0.10
22. Snake Run	1,718	14,449	0.12
23. Hurricane Ditch Creek	3,071	10,420	0.29
24. West Fork Creek	8,860	19,064	0.46
25. Clear Fork Ditch	6,994	11,359	0.62
26. Sand Creek - Muddy Fork Ditch	2,168	11,200	0.19
TOTAL	39,218	235,228	

### SUBWATERSHED ANNUAL PHOSPHORUS LOADING (kg)

The data from Harza's Diagnostic Study and Pigeon-Highland Watershed Steering Committee's monitoring reveals that human-induced changes to the watershed have resulted in degradation of water quality, loss of floodplain storage, diminished wildlife populations, and decreased aesthetic and recreational values. Specifically, the watershed upstream of Evansville is subject to nonpoint source pollution from agricultural, mining and other land use detrimental to stream health. Within the City of Evansville, Pigeon Creek is impacted by combined-sewer overflows (CSO) which contribute nutrients and bacteria to the stream. See Appendix C for CSO data summary and recommendations.

- Sediment from erosion is indicated as the greatest pollutant problem. The Harza study estimated that the sediment yield in the Pigeon Creek watershed was 29,712 tons per year. Well correlated to the sediment yield is the phosphorous loading of 39,218 kg per year. Other indicators of poor water quality were dry-weather *E. coli* bacteria levels well-above the state standard, high nitrate and phosphate levels, and poor diversity among the macroinvertebrates sampled.
- Pigeon-Highland Watershed Steering Committee's data reflected similar conditions. Obenshain was able to witness first-hand the destruction of habitat and sedimentation

problems associated with development of land in the watershed area. In the spring of 2003, extremely high nitrate levels were detected at several monitoring points- in the absence of known human or animal waste discharges. Further testing revealed that the nitrate source was farm field drainage tile. Obenshain theorizes that the corn crop of 2002, which was well below average in yield in many areas of the watershed, failed to utilize the available nitrogen in the soil. With 12+ inches of snow and significant rain events early this year, the nitrate was subsequently leached through the soil into the groundwater, and discharged through the drainage tiles into the creeks.

• In a separate study of McFadden Creek watershed (05140202070050)in Posey County, both Harza and Pigeon-Highland Watershed Committee produced quality-assured data. Water quality analyses found: supersaturated oxygen levels, generally high nutrient and suspended solids concentrations, and high fecal coliform counts. The Harza study noted the following trends from downstream to upstream reaches: increased dissolved oxygen supersaturation, increased nitrate nitrogen concentrations and degraded physical habitat- particularly in the substrate and riparian ratings. See Appendix D for raw data, sampling dates & sample site locations.

Summary of Harza's data from McFadden Creek watershed:

Examined on a stream-reach scale, the data indicates that nonpoint source pollution from agriculture (82% of land-use) is resulting in degradation of water quality. In addition, the riparian zones, especially the upper reaches, have been cleared of all trees- resulting in diminished wildlife values, lack of woody debris in the channel and higher stream temperatures. Higher than normal conductivity readings at some sample sites may indicate brine contamination from oil wells in the watershed. There are three livestock operations in the watershed: one turkey farm, one swine operation and a dairy that all warrant attention. In addition, illegal disposal of solid waste is a problem in some areas of McFadden Creek.

- Pigeon-Highland Watershed Steering Committee's data on Carpentier Creek (05140202050010)revealed widely-fluctuating E. coli bacteria levels: 0 to 5400 col/100 ml, occasional alkaline spikes in pH, and normal nutrient and sediment loads. However, this urban subwatershed is under tremendous pressure from development, and in fact, the riparian habitat at the sampling location was recently completely removed by a developer. *See Appendix B for raw data.*
- IDEM's Assessment Branch also sampled in the Bayou Creek subwatershed (05140202070020). Their data, from the summer of 2000, indicate critically low dissolved oxygen levels and lower than normal pH. Volunteer data (non quality-assured), from Hoosier Riverwatch taken at two sites upstream from IDEM's site indicates phosphate enrichment, E. coli bacteria counts from 0 to 3600 col/100 ml, poor macroinvertebrate pollution tolerance scores, and poor habitat scores, indicating impaired water quality and habitat. See Appendix E for the raw data and sample site locations.
- A WRAS (watershed restoration action study) was completed by USDA-Natural Resources Conservation Service employee Andy Ertel in 2000. The study found similar conditions within the watershed.
- Impaired streams indicated in IDEM's 303(d)& 305(b) lists: Nine 14-digit subwatersheds of Pigeon-Highland watershed appear in IDEM's 2002 303(d) list: Crawford Brandeis Ditch (Vand) (PCB's); Pigeon Cr.-Lower Locust Cr.(Vand) (PCB's); Harper Ditch (Vand) (PCB's,low dissolved oxygen, high TDS, pathogens); Pigeon Creek at Kleymeyer Park (Vand)(PCB's, sulfates, TDS,pathogens and low dissolved oxygen); and the Ohio River from the confluence of the Green River to the confluence of the Wabash River (Vand, Posey)(PCB's, pathogens, dioxin); Hovey Lake(Posey) (PCB's); Squaw Creek (Warrick) (sulfates, TDS). It should be noted that PCB's are "legacy" contaminants usually found in the sediment of the affected water bodies. "Legacy" means that the original source of the water body. The 305(b) report states that in the Ohio River Basin- of which Pigeon-Highland is a subbasin- 67% of stream miles do

not provide aquatic life support. This is well documented for Pigeon-Highland watershed in the data we have.

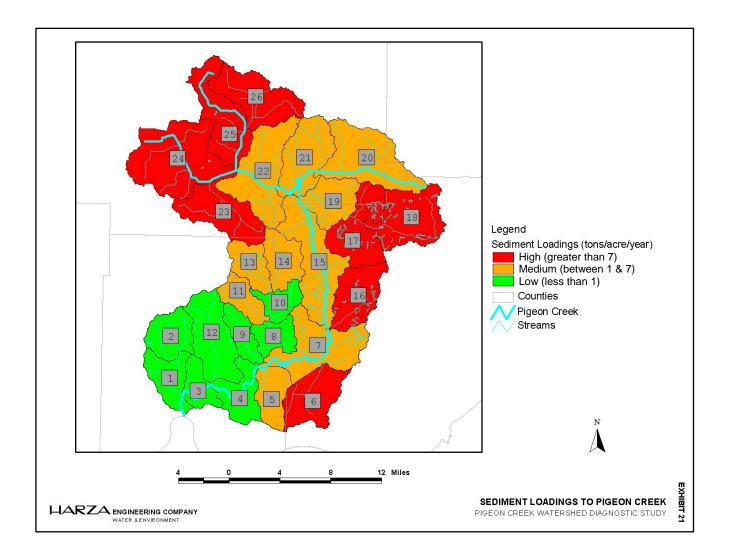
### Problem Statements:

- 1. Sediment is the greatest contaminant by volume of the streams in Highland Pigeon watershed. Confirmed by the data? YES.
- 2. Loss of riparian habitat and channel modification have impaired Aquatic Life Use Support. Confirmed by the data? YES.
- 3. High levels of phosphorous and nitrate are impairing aquatic life by encouraging algal growthleading to eutrophication. Confirmed by the data? YES.
- 4. Discharges of raw or inadequately treated sewage, and/or runoff from livestock operations make water unsafe for full-body contact recreation. Confirmed by the data? YES.
- 5. Illegal dumping of solid waste diminishes aesthetic values and poses a possible health threat. Confirmed by visual observation? YES.
- 6. Loss of wetlands reduces runoff storage and cleansing of water- also loss of habitat. Confirmed by the data? IMPLIED.
- 7. Urban erosion control practices are not being followed/need to be improved. Confirmed by the data? YES- as evidenced by high sediment loading in urban subwatersheds.
- 8. Streams in watershed are unsafe for children. Confirmed by the data? YES- see Statements #4 and #5.
- 9. Lack of education about water, watersheds and land use has contributed to above problems. Confirmed by experiences of PHWSC over the past four years? YES.

5. Identifying Sources: Identify the source of the stressors and threats.

• As stated in Item 4, sedimentation from soil erosion has been identified as the greatest stream contaminant. According to the Harza study, the majority of the stressor originates from agriculture (subwatersheds 23-26) and mining (subwatersheds 16-18) although erosion from ag/urban development (subwatershed 6) is an increasing problem. The map below indicates the subwatersheds of Pigeon Creek where soil loss is most prevalent (Figure 12).

Figure 12: sediment loading



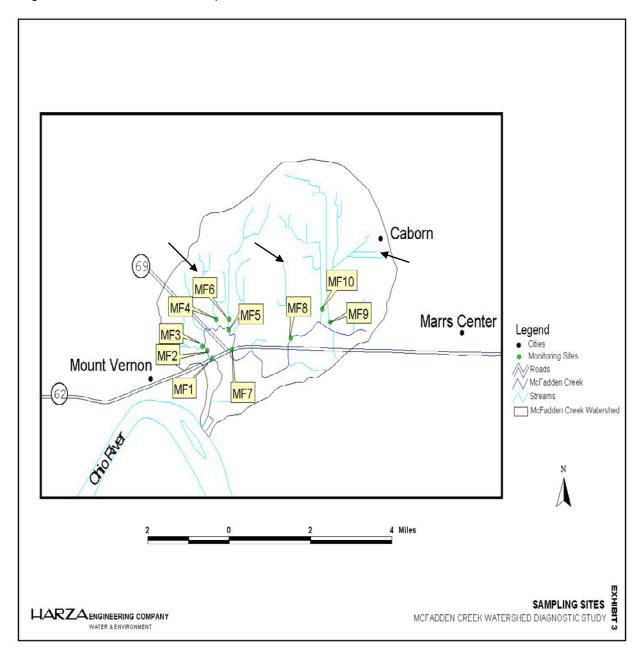
The Harza data for McFadden Creek indicates that sedimentation from soil erosion originates from agriculture. The concentration of highly-erodable soil in the higher elevations of the watershed can be identified as the source. The data indicates the problem on a stream reach scale, as indicated in Table 11 below:

Site	Waterbody	Silt Cover (points)	Extent of Embeddness (points)	
MF-1	McFadden Creek	Silt normal (0)	Moderate (-1)	
MF-2	McFadden Creek	Silt normal (0)	Low (0)	
MF-3	Second Tributary*	Silt moderate (-1)	Moderate (-1)	
MF-4	Fourth Tributary*	Silt normal (0)	Low (0)	
MF-5	McFadden Creek	Silt moderate (-1)	Moderate (-1)	
MF-6	Fifth Tributary*	Silt moderate (-1)	Moderate (-1)	
MF-7	McFadden Creek	Silt normal (0)	Low (0)	
MF-8	McFadden Creek	Silt moderate (-1)	Moderate (-1)	
MF-9	Eleventh Tributary*	Silt moderate (-1)	Moderate (-1)	
MF-10	Tenth Tributary*	Silt heavy (-2)	Extensive (-2)	

### Table 11 SUBSTRATE QUALITY SCORING

• In addition, three livestock operations have been identified in McFadden Creek watershed. While it is not possible to make an exact determination based upon such limited data, these facilities may be contributing E. coli and nutrients to the stream. Facilities include a hog operation, a turkey raising and processing facility, and one dairy. These are indicated on the map below.





Another prevalent stressor in Highland – Pigeon watershed is loss of riparian habitat- leading to decreased aquatic life use support(ALUS) and aesthetic value. This stressor is caused by human alteration of the landscape, mainly for agricultural use, but destruction of habitat in developing areas is also a factor. In combination with the sedimentation problem, this has resulted in 100% of the streams in the eight-digit watershed being impaired- to some degree-for aquatic life use support. Harza ranked the subwatersheds in the Pigeon Creek basin according to degree of impairment, the First Quartile being the least impaired, and the Fourth being the most impaired:

Table 12

First Quartile		Second Quartile		Third Quartile		Fourth Quartile	
Site	Water Body	Site	Water Body	Site	Water Body	Site	Water Body
SF3	Smith Fork	PC4	Pigeon Creek	WF2	West Fork	HC1	Hurricane Creek
BG1	Big Creek	PC5	Pigeon Creek	WF3	West Fork	PC8	Pigeon Creek
BG2	Big Creek	PC12	Pigeon Creek	PC13	Pigeon Creek	BC3	Bluegrass Creek
PC15	Pigeon Creek	SC1	Squaw Creek	PC1	Pigeon Creek	WD1	Weinsheimer Ditch
SF1	Smith Fork	WF1	West Fork	PC3	Pigeon Creek	PC7	Pigeon Creek
SF2	Smith Fork	PC2	Pigeon Creek	BC1	Bluegrass Creek	BC2	Bluegrass Creek
PC14	Pigeon Creek	PC11	Pigeon Creek	LP1	Little Pigeon Creek	PC6	Pigeon Creek
SA1	Sand Creek	PC16	Pigeon Creek	LC2	Locust Creek	PC9	Pigeon Creek
LP2	Little Pigeon Creek	LC1	Locust Creek	UN1	Unnamed Tributary	SD1	Stollberg Ditch

## RELATIVE TRIBUTARY BIOTIC INTEGRITY

A third identified stressor is E. coli bacteria. This stressor can be traced to both point and nonpoint sources. Permitted point sources include EWSU's eight CSO discharges to lower Pigeon Creek, five industrial dischargers, and six municipal wastewater treatment plants (WWTP). The CSOs are addressed under the context of the SRCER (Appendix C). The five industrial discharges appear to be minor contributors of pollutants to Pigeon Creek, with generally good compliance records. In general, the municipal WWTPs in the watershed do not have acceptable performance records and require expansion, upgrading, and/or additional operator training. Three municipal WWTPs are currently being upgraded, but more should be studied for possible upgrade or expansion.

• The Chandler WWTP has a history of poor compliance, but has been upgraded, so pollutant discharges from this point source may be reduced at the present.

• The Haubstadt WWTP also has a history of poor compliance. At the time of Harza's Diagnostic Study, there were still some indications of operational problems. This WWTP has since been upgraded to reduce wet weather overflows and improve effluent quality.

• The Fort Branch WWTP also has noncompliance reports to its records. We measured high coliform bacteria concentrations, high nitrates, ammonia and supersaturated dissolved oxygen conditions downstream of this facility. Plans for expansion or upgrading have been talked about for several years, but no action for improvement has been taken.

• The Elberfeld WWTP has numerous noncompliance reports in the EPA's Permit Compliance System database. It has recently been expanded.

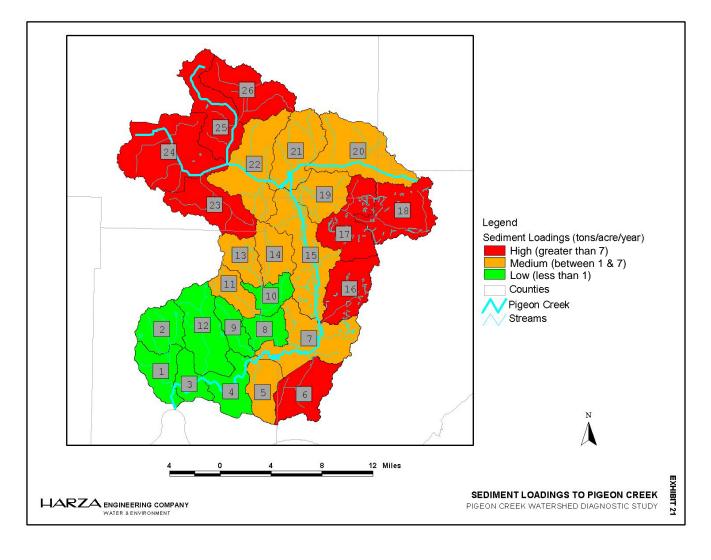
 Nonpoint sources of E. coli are much harder to identify and quantify. From limited visual observance, malfunctioning home septic systems are a problem, but as to the magnitude of their contribution of E. coli to the streams of the watershed, much more study needs to be done. •

**<u>6. Identifying Critical Areas</u>**: Target areas within the watershed where the sources/stressors are causing the greatest damage, and where applying treatment measures will have the greatest effect.

Targeted areas. Areas selected for restoration efforts fall into two categories: those subwatersheds where erosion control, improved point source control, nutrient management and riparian restoration will have the greatest impact; and subwatersheds that still retain good habitat values and acceptable water quality and are thus worthy of protection and enhancement.

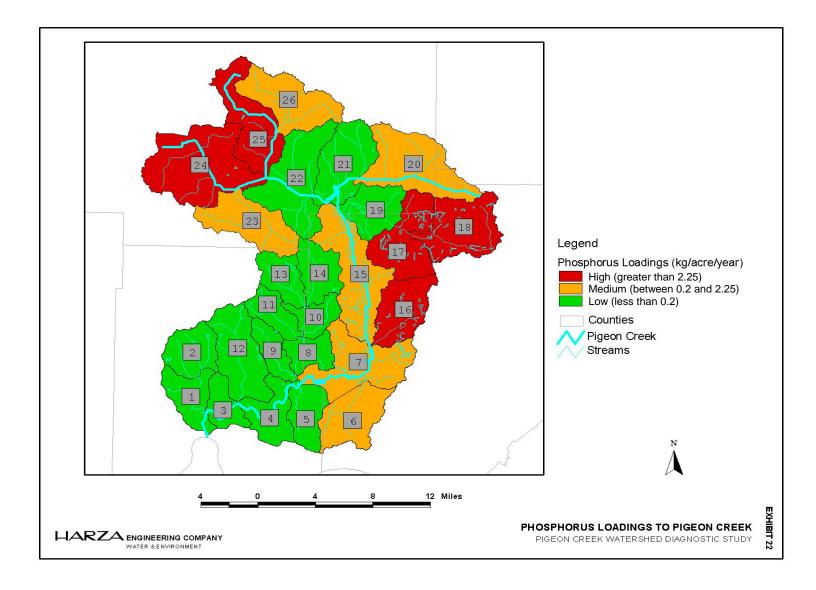
 In the Pigeon Creek basin, subwatersheds 6,16,17,18,23,24,25 and 26 exhibit the highest areal (tons/acre/yr) sediment loading and should be considered priority for erosion control best management practices.

Figure 14: sediment loading



In the Pigeon Creek basin, subwatersheds 16,17,18,24 and 25 exhibit the highest areal (kg/acre/yr) phosphorous loading and should be considered priority for applying nutrient management practices.

Figure 15: phosphorous loading



In the Pigeon Creek basin, subwatersheds 7,10,15,23 and 24 exhibited the highest nitrate concentrations and should be considered priority for applying nutrient management practices and/or further investigation into septic tank and WWTP discharges.

The surface water quality standard set by the State for nitrite and nitrate is a maximum of 10 mg/L. This is based upon human health criteria and has no wildlife basis.

Nitrate values for the August survey ranged from less than the detection limit of 0.05 mg/L as N at several sites, to a high of 6.7 mg/L at WF2 downstream of the Fort Branch wastewater treatment plant (WWTP) effluent on the West Fork Pigeon Creek. We also measured high nitrate at SD1, Stollberg Ditch at SR 62, of 5.4 mg/L as N.

Nitrate values for the May 2000 survey ranged from less than the detection limit of 0.05 mg/L as N at several sites, to a highs of 9.3 mg N/L at WF3, 8.9 at WF2 and 8.0 at WF1, all on West Fork Pigeon Creek. WF3 is upstream of all NPDES discharges and high nitrate levels there reflect agricultural nonpoint sources. We also measured high nitrate at SD1, Stollberg Ditch, of 5.7 mg N/L, and at Hurricane Creek, HC1, of 4.9 mg N/L; both SD1 and HC1 are downstream of WWTP discharges.

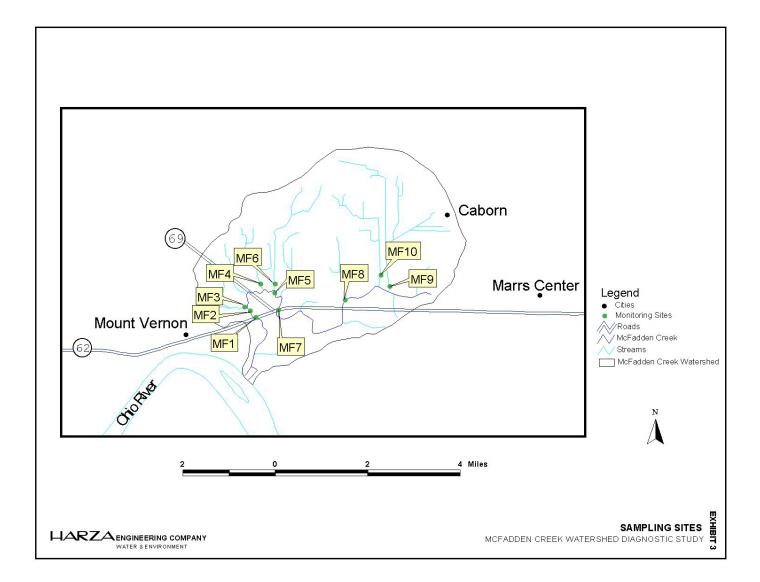
The surface water quality standard set by the State for ammonia nitrogen is pH and temperature dependent. Ammonia nitrogen values for the August survey ranged from less than 0.03 mg/L at PC3 (Pigeon Creek upstream of First Avenue), to a high of 2.88 mg/L at PC6, at US 41. Ammonia nitrogen values for the May survey ranged from 0.11 mg/L at PC6, to a high of 6.5 mg/L at PC9 (Stevenson Station Road). This high value at PC9 is suspect, as total Kjeldahl nitrogen (TKN) at PC9 during the May survey was 1.5 mg/L. As ammonia is operationally defined to be less than TKN, we attribute this value to laboratory error.

There is no state water quality standard for TKN. TKN values for the August 1999 survey ranged from less than the detection limit of 1.0 mg/L at several sites to 4.6 in Stollberg Ditch. TKN values for the May 2000 survey ranged from less than the detection limit of 1.0 mg/L at several sites to 10.0 in Stollberg Ditch. Other high TKN values found during May were at UN1, an unnamed tributary near Chandler, of 8.4 mg/L, and PC4, at Heidelbach Avenue of 5.0 mg/L.

• From the Harza study of McFadden Creek subwatershed, we estimated the following loadings (see map next page):

Reach MF1 836.4 kg/yr phosphorous, 10,418 lbs/yr nitrate, 66.2 tons/yr sediment Reach MF2 836.4 kg/yr phosphorous, 10,418 lbs/yr nitrate, 79.2 tons/yr sediment Reach MF3 114.5 kg/yr phosphorous, 1181 lbs/yr nitrate, 6.3 tons/yr sediment Reach MF4 64.4 kg/yr phosphorous, 1892.7 lbs/yr nitrate, 1.2 tons/yr sediment Reach MF5 No loading- stream flow not measured Reach MF6 274.5 kg/yr phosphorous, 79.2 lbs/yr nitrate, 65.3 tons/yr sediment Reach MF7 549 kg/yr phosphorous, 125.2 lbs/yr nitrate,

 McFadden...Continued 107.1 tons/yr sediment
 Reach MF8
 656.2 kg/yr phosphorous, 11,676 lbs/yr nitrate, 212.6 tons/yr sediment
 Reach MF9
 210 kg/yr phosphorous, 4953 lbs/yr nitrate,
 6.9 tons/yr sediment
 Reach MF10
 47.2 kg/yr phosphorous, 1378 lbs/yr nitrate,
 0.7 tons/yr sediment Figure 16: sampling sites in McFadden Creek subwatershed



• From Pigeon-Highland Watershed Steering Committee's quality-assured data for Carpentier Creek subwatershed:

Phosphorous loading = 0.28 kg/yr/ac

Nitrate loading = 0.29 lbs/yr/ac

Sediment loading not calculated, due to no suspended solids tests done. However, given the average turbidity of 16.78 NTU, sediment loading can be assumed to be fairly low.

- No flow data was collected by IDEM Assessment Branch for the Bayou Creek subwatershed. Hoosier Riverwatch volunteers did collect flow data, unfortunately, there was no detectable flow in the channel on that particular date. Concentrations indicate phosphate enrichment and low dissolved oxygen.
- E. coli bacteria. Escherichia coli is the most widely known member of the coliform group of bacteria. E. coli is abundant in fecal matter and is often used as an indicator of sanitary discharges and pathogenic organisms. E. coli is estimated colony forming units (cfu) per 100ml of sample. Indiana's standard for recreational waters state "E. coli bacteria, using membrane filter (MF) count, shall not exceed one hundred twenty-five (125) colony forming units per one hundred (100) milliliters as a geometric mean based on not less than five (5) samples equally spaced over a thirty (30) day period nor exceed two hundred thirty-five (235) colony forming units per one hundred (100) milliliters in any one (1) sample in a thirty (30) day period" (IAC 327 2-1-6).

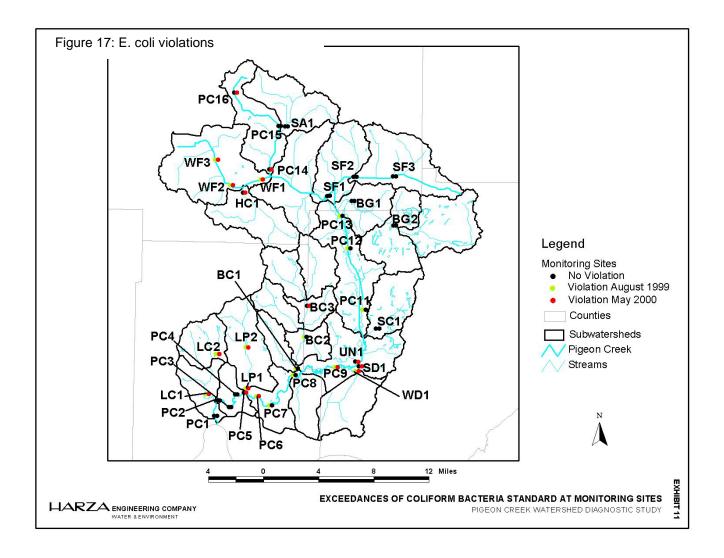
Samples were collected for measurement of *Escherichia coli* at each site during the bioassessments of August 1999 and May 2000, as well as during CSO and wet weather sampling. The results of the latter are presented in the Stream Reach Characterization and Evaluation (Appendix C). Results from the August *E. coli* survey range from zero to 24,000 colony-forming units per 100 mL. Seventeen out of 36 sites were found to be in excess of the 235/100 mL water quality standard (Table 14) and an equal number, albeit at some different sites, exceeded the standard during the May survey. Nine sites exceeded the standard during both surveys: two locations on Pigeon Creek (PC6 and PC9), both sites on Locust Creek, both sites on Little Pigeon Creek, Weinsheimer Ditch, and all sites on West Fork Pigeon Creek (WF1, WF2, WF3).

Table 13

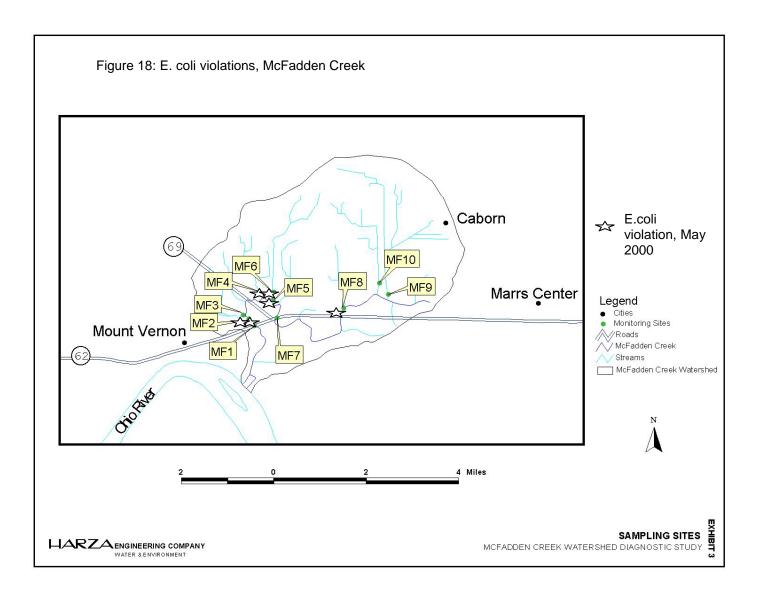
### SITES DOCUMENTED DURING DRY WEATHER TO EXCEED THE *E. COLI* STANDARD

August 1999	May 2000
PC6, PC7, PC8, PC9, PC 11, PC12, PC13,	PC5, PC6, PC9, PC14, PC16, LC1, LC2,
LC1, LC2, LP1, LP2, BC1, BC2, WD1, WF1,	LP1, LP2, BC3, WD1, SD1, UN1, WF1, WF2,
WF2, WF3	WF3, HC1

In their 305(b) assessment process, IDEM does not use the water quality standard to determine recreational use support of streams. IDEM considers streams with no more than one grab sample slightly exceeding 235 colonies/100mL and the geometric mean not exceeded to support recreational use. In the August survey, 13 sites exceeded 235/100mL. During the May survey, 12 sites exceeded 235/100mL.

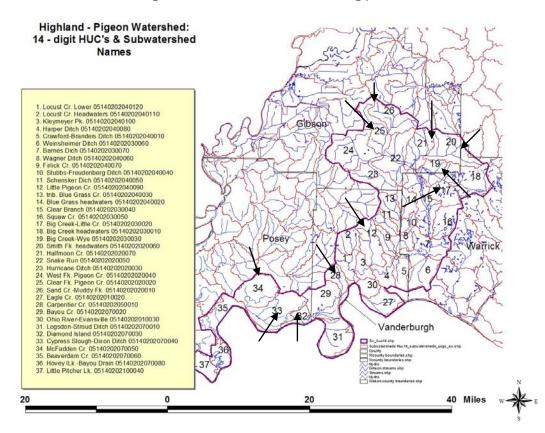


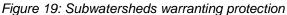
In McFadden Creek subwatershed, sites MF-1, MF-2, MF-4, MF-5, MF-6, and MF-8 exceeded the state standard for *E. coli* bacteria during the May 2000 monitoring period.



The only site not covered by both the Harza study and the PHWSC study, for which E.coli data exists, is Carpentier Creek, #28. E. coli counts ranged from 0 to 2500 colonies per 100 ml and the state standard of 235 col/100ml was exceeded in 5 of 14 sampling events.

Subwatersheds identified in the Harza study that warrant protection/conservation efforts- due to inherent habitat quality and relatively good water quality- include: 17- Big Creek/Little Creek; 19-Big Creek/Wye; 20- Smith Fork headwaters; 21- Halfmoon Ditch; and 25- Pigeon Creek/Clear Fork; 26- Sand Creek; and 12- Little Pigeon Cr.





- Carpentier Creek subwatershed, #28, is slated for study by the Vanderburgh Co. Surveyor's Office-Drainage Board as the watershed is increasingly affected by urbanization.
- Subwatersheds not covered in either Harza's or PHWSC's studies, but warranting protection because of significant wetlands and cypress groves include: 32- Diamond Island/Dixon Ditch and 33- Cypress Slough. Subwatershed 36- Hovey Lake/Bayou Drain, is already protected under state and federal agencies.

 The remainder of the subwatersheds in the Pigeon Creek basin are ranked from highest quality to worst, the very best being discussed on the previous page: Table 14

Monitoring Site	Water Body	Points	Rank
	First Quartile		
SF3	Smith Fork	13	1
BG1	Big Creek	16	2
BG2	Big Creek	16	3
PC15	Pigeon Creek	18	4
SF1	Smith Fork	18	5
SF2	Smith Fork	18	6
PC14	Pigeon Creek	20	7

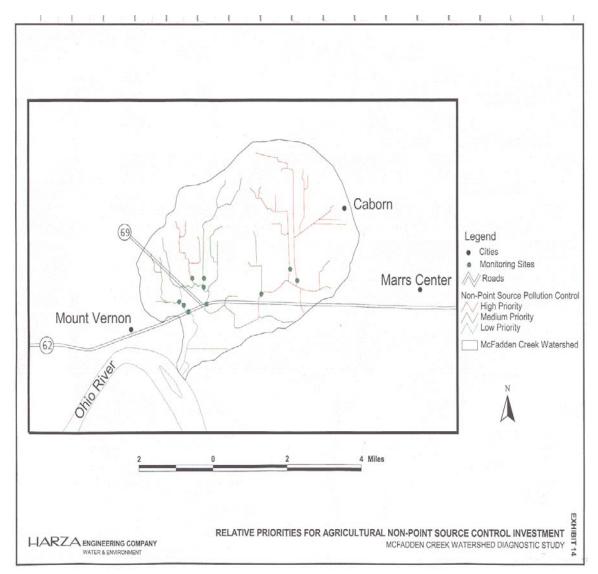
#### Monitoring Site Water Body Points Rank SA1 Sand Creek 22 8 LP2 Little Pigeon Creek 23 9 Second Quartile PC4 Pigeon Creek 24 10 PC5 Pigeon Creek 24 11 PC12 Pigeon Creek 24 12 SC1 Squaw Creek 24 13 WF1 West Fork 25 14 PC2 Pigeon Creek 26 15 PC11 Pigeon Creek 2616 PC16 Pigeon Creek 27 17 LC1 Locust Creek 27 18 Third Quartile WF2 West Fork 27 19 WF3 West Fork 27 20PC13 Pigeon Creek 28 21 PC1 Pigeon Creek 29 22 PC3 Pigeon Creek 29 23 BC1 Bluegrass Creek 30 24 LP1 Little Pigeon Creek 31 25 LC2 Locust Creek 33 26 UN1 Unnamed Tributary 33 27 Fourth Quartile Hurricane Creek 28 HC1 33 PC8 Pigeon Creek 35 29 BC3 Bluegrass Creek 35 30 WD1 Weinsheimer Ditch 35 31 PC7 Pigeon Creek 36 32 BC2 Bluegrass Creek 37 33 PC6 Pigeon Creek 39 34 PC9 Pigeon Creek 41 35 SD1 Stollberg Ditch 41 36

### RELATIVE TRIBUTARY BIOTIC INTEGRITY

- McFadden Creek, subwatershed #34, is currently the recipient of IDNR LARE (lake & river enhancement) funding for erosion control and manure management practices. McFadden Creek enters the Ohio River in close proximity to Mount Vernon's drinking water intake.
- McFadden Creek was also prioritized for agricultural nonpoint source control on a stream reach basis:
   Figure 20

HIGH	MF-10,MF-4,MF-8,MF-9
MODERATE	MF-7,MF-5,MF-6,MF-3
LOW	MF-1,MF-2

Stream reach



Prioriy

**7. Setting Goals and Selecting Indicators:** State the water quality improvement or protection goals that were agreed upon by the group. Goals must include specific, realistic targets for reducing pollutants or mitigating impacts, and identify timeframes for accomplishment.

### • Goals:

- Reduce sediment loading in subwatersheds 23,24, 25,26,MF4,MF8,MF9,MF10 by 50% OR to "T" levels for prevailing soil types. 5 to 10 years.
- 2. Restore riparian habitat to improve Aquatic Life Use Support/aesthetic value in subwatersheds 23,24,25,26,MF8,MF9,MF10. 5 to 15 years.
- 3. Reduce levels of phosphorous by at least 50% in subwatersheds 16,17,18,24 and 25. 5 to 10 years.
- Eliminate discharges of raw or inadequately treated sewage, by supporting preparation of preliminary engineering reports for Gibson, Warrick, and Posey counties. 5-10 years. Support continued work on combined sewer overflow elimination in Evansville. Also encourage upgrade at Ft. Branch WWTP (subwatershed 24) 5 to 25 years.
- 5. Reduce runoff from livestock operations in subwatersheds MF4,MF8,MF9,and 20. 3 to 5 years.
- 6. Reduce illegal dumping of solid waste and cleanup existing sites in subwatersheds MF2, 7,15,16,25. 5 to 10 years.
- Restore impaired wetlands and/or create new wetlands by enrolling at least 100 acres in USDA-NRCS Wetland Reserve Program. Potential watersheds: 16,25,and 33. 5 to 10 years.
- 8. Encourage adoption of urban erosion control practices and enforce current rules and ordinances. Ongoing.

9. Provide education opportunities- field days, public meetings, school visits, etc. regarding water, watersheds and land use to all stakeholders. Ongoing.

(See Table in Appendix F)

8. CHOOSING MEASURES TO APPLY: Describe what needs to be implemented or changed to achieve the goals of the watershed plan. Select an array of measures or alternatives to accomplish this.

### • Sedimentation from erosion on agricultural land.

There are many types of Best Management Practices (BMP's) available for erosion control on agricultural land. Ranging from the simple, but very effective vegetative filter strip, up to engineered practices such as WASCoB's (water and sediment control basins). Practices are field –specific, not all practices are appropriate on every farm.

Practices are usually designed by USDA-NRCS personnel, under the guidance of an Agricultural Engineer, to NRCS specifications as found in the Field Office Technical Guide (FOTG).

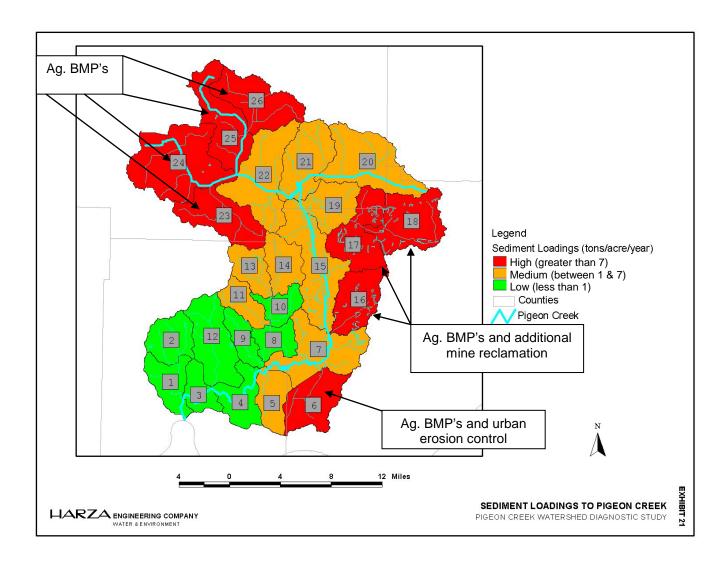
Continuous cropping systems- utilizing cover crops or corn-wheat-soybean-hay rotations- are also effective in reducing soil erosion. No-till corn planting is very effective, but adoption rates are low in Gibson County, the area of the watershed with the most highly erodable land. For subwatersheds 23,24,25 and 26 the following BMP's are recommended: vegetative filter strips on any land adjacent to a stream to control sheet & rill erosion, grassed waterways and/or WASCoB's to control gully erosion, and cover crops or no-till systems to reduce soil loss from fallow fields. Filter strips have the added advantage of moving all chemical application away from surface water.

For subwatersheds 16,17 and 18, the same practices would be appropriate on the land that is in crop production. However, these three subwatersheds also have large areas of minimally-reclaimed strip mine land, and also active mining. In the case of the reclaimed ground, critical area planting that includes: additional tree planting, warm-season grasses, retention basins and other practices would be appropriate. Additional buffers and retention would also be appropriate on the active mine land.

Subwatershed 6 is a combination of agriculture and rapidly-urbanizing land. BMP's suggested for the other agricultural subwatersheds would be appropriate on the cropped area. For the land under development, increased attention should be paid by the regulatory authority to erosion control plans required of any project disturbing 5 acres or more. Such plans should meet guidelines found in "Indiana Handbook for Erosion Control in Developing Areas", otherwise known as "Rule 5". A local ordinance requiring a vegetative buffer between any watercourse and development would be very effective.

Technical assistance and financial incentives are available for most agricultural BMP's through USDA programs such as: Conservation Reserve Program (CRP), Environmental Quality Incentives Program (EQIP) and state programs such as IDNR's Lake and River Enhancement (LARE) program and IDEM's Section 319 nonpoint source program.





• **Runoff from livestock operations.** Once again, NRCS is the lead agency on the planning and design of livestock and manure management practices. The Field Office Technical Guide and the National Grazing Handbook give design requirements and applications.

For the Smith Fork headwaters subwatershed (#20), manure management plans should be prepared for each of the five identified producers. These plans, developed to FOTG specifications by a Certified Crop Consultant, spell out the rate, timing and location of all manure application to the land. Manure composting facilities are another possibility for these producers, and have the advantage of reducing the volume of manure ultimately needing to be disposed of. Rotational grazing and pasture renovation would be appropriate for at least one of the beef cattle producers, where destruction of the sod leaves the soil and manure readily available for transport to the nearest stream. A remote watering system is also need at this same site, as the cattle are permitted access to the stream at the present. Technical assistance for this subwatershed is available from NRCS and IDNR Resource Specialists. Financial assistance is available through USDA's EQIP and CRP programs. (See map below)

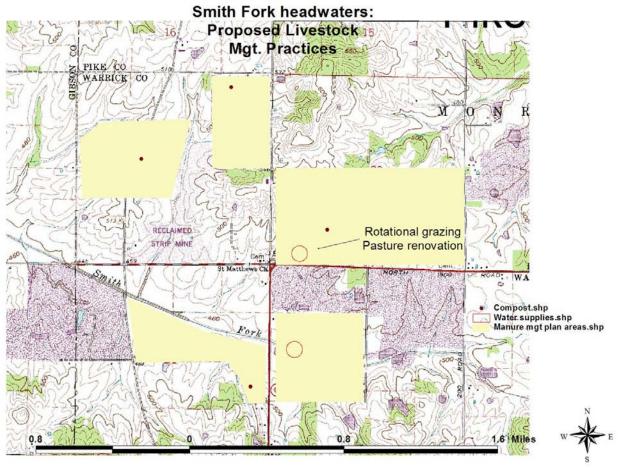
For the MF4 reach of McFadden Creek subwatershed (#34), a manure management plan is needed for a small turkey growing and processing facility. It has been observed that the manure is being applied in the same field year after year. The resulting nutrient overload in the soil is assumed to be contributing excess nutrients to this stream reach. In addition, the waste disposal system for the processing plant is not adequate, and is contributing E. coli and nutrients directly to the stream.

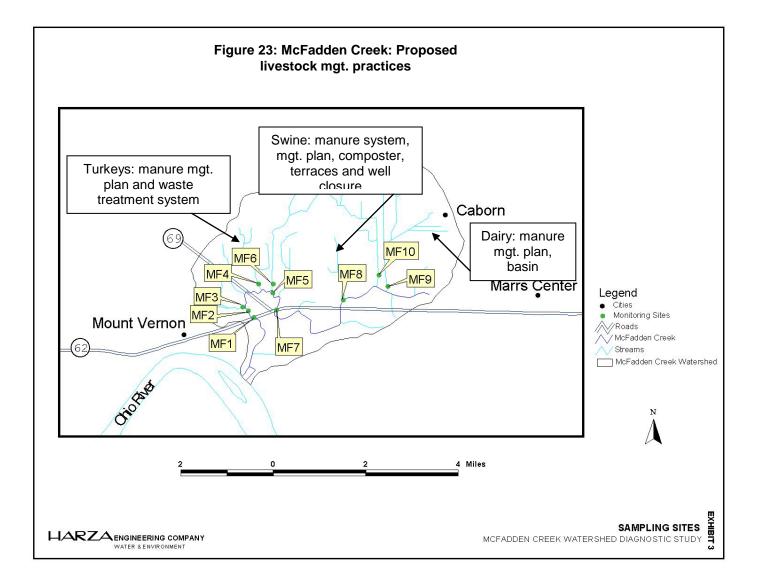
The swine facility in Reach MF8 has numerous problems. A manure management plan should be developed- as well as a manure application system of some kind. This facility also requires a composter for dead animals and bedding. Terraces need to be constructed to divert runoff from entering and hydraulically overloading the manure holding basins. Two abandoned water wells need to be properly closed.

The small dairy in Reach MF9 needs a manure management plan and a retention basin for feedlot runoff (See map next page).

Technical assistance for these practices is available from NRCS and IDNR Resource Specialists. Additional guidance is available from Purdue University: <u>http://agry.purdue.edu/mmp/</u> Financial assistance from IDNR's LARE program is already in place for McFadden Creek subwatershed, and working relationships between the facility owners and technical assistance providers are already being forged.

Figure 22





**Educational opportunities.** A major cause of ambivalence towards watersheds has been the lack of a coordinated educational effort. During PHWSC's four years of Section 319 funding, well over a thousand students, from 4<sup>th</sup> grade to university, were exposed to watershed and water quality information. Several field days for adult citizens were also held, and programs, displays and materials were presented to agricultural stakeholders at public meetings. With the end of grant funding in June 2003, this effort will cease, leaving a definite need for more educational opportunities. The Soil & Water Conservation Districts have traditionally been the leaders at the county level for environmental education. Currently, only Gibson County has a full-time Educator on staff, and as a county employee, she is constrained from working outside the county. Educational opportunities are an integral part of the other eight goals of this plan. For the sake of future planning, we propose that the four county area seek funding from local and state government, and private partners to create the position of Watershed Education Coordinator.

### Figure 24: Examples of Printed Educational Material IDNR LARE Brochure



In 2000, the State Soil Conservation Board awarded \$1.1 million of Lake and River Enhancement funds as grants to protect the water quality of Indiana lakes and streams and to reduce soil crossion. The funded projects will improve water quality through the installation of grass cover, filter strips and structures to reduce sedimentation and nutrient runoff. Some will result in the production of scientific studies that document water-related problems and solutions. Since 1988, The LARE program grants have assisted nearly 200 projects.



The Department of Natural Resouces' Division of Soil Conservation belongs to the Indiana Conservation Partnership. The partnership includes Indiana's 92 soil and water conservation districts (SWCDs), the USDA Natural Resources Conservation Service, and the Purdue University Cooperative Extension Service. Working together, the Indiana Conservation Partnership provides technical, educational, and financial assistance to citizens in order to solve erosion and sediment-related

problems occurring on the land or impacting public waters. If you are a landowner in the Pigeon Creek Watershed and

are interested in improving our water resources and conserving soil, please contact us.

Contacts for additional information:

Department of Natural Resources Division of Soil Conservation 402 W. Washington St., W265 Indianapolis, In46204-2739 Telephone 317-233-3870 www.state.in.us/dur/soilcons

Evansville Water and Sewer Utility Telephone 812-421-2130

DNR Agricultural Conservation Specialist Mr. Ronnie Boehm Telephone 812-482-1171 ext. 3

Vanderburgh County Soil and Water Conservation District, Evansville, Indiana Telephane 812-867-0729

Gibson County Soil and Water Conservation District Princeton, Indiana Telephone 812-385-5033 ext. 3

Warrick County Soil and Water Conservation District Boonville, Indiana Telephone 812-897-2840 ext. 3

Four Rivers Resource Conservation and Development Area, Inc. Telephone 812-354-6808 ext. 5

Photographs courtesy of USDA NRCS and Harza Engineering Company.

Pigeon Creek Watershed Conserving Natural Resources in the Pigeon Creek Watershed



A partnership of the Vanderburgh, Gibson and Warrick County Soil and Water Conservation Districts, Evansville Water Sewer Utility, Four Rivers Conservation and Development Area, Indiana Department of Environmental Management and Indiana Department of Natural Resources

# Mission

The Pigeon-Highland Watershed Steering Committee was formed out of concern for the health of the watershed. It originated in 1999 as a 319a grant through the Indiana Dept. of Environmental Management, Administered through Four Rivers R.C. @ D., the project involves many groups and agencies, including the USDA Natural Resource Conservation Service, the Indiana Dept. of Natural Resources, Div. of Soil Conservation, and the local Soil and Water Conservation Districts. But most importantly, the project depends on landowners and communities in the watershed.

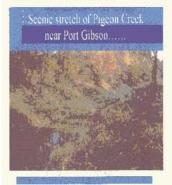


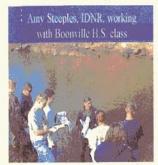
Figure 25: PHWSC Brochure

# Goals

- · Coordinate volunteer water quality monitoring efforts.
- · Submit information to the media on at least a quarterly basis.
- · Develop and implement a costshare program for landowners for the installation of best management practices on their land.
- · Document via photographs the condition of land before and after implementation of best management practices.
- · Develop a database to identify tributaries, land use and ownership within the watershed.



# Services



GET INVOLVED!! You can do your part to improve water quality. There are many benefits to participants of the project. Farmers can help improve water quality by participating in the buffer initiative which has cost share opportunities.

Citizens can participate in water quality monitoring through the RiverWatch program To participate, or for more information, call the Watershed Restoration Coordinator, Rick Obenshain at (812)

385-4849 ext.3

- Another function of the Watershed Educator may be contacting agricultural land owners and operators to encourage BMP installation. This approach has worked quite well during the four years the Watershed Coordinator position was funded through IDEM's 319 grant program.
- Discharges of raw or inadequately treated sewage. This problem presents challenges on many levels- funding being the major obstacle. The city of Evansville has completed a Long Term Control Plan (LTCP) for the combined sewer overflows (CSO's) and is making headway on the construction of a new north-side treatment plant (see Appendix C for more info). The plant alone is projected to cost \$53,000,000, but is vital to meet the rapid growth of the north-side. One interesting fact about the new plant is that while it will significantly reduce CSO volume to Pigeon Creek, the plant will discharge treated effluent to Pigeon Creek. All told, Evansville will spend over \$130,000,000 to eliminate or control CSO discharges to Pigeon Creek and the Ohio River.
- The Fort Branch wastewater treatment plant (WWTP) is in dire need of expansion and upgrade. It is the only remaining small WWTP in the watershed that has NOT been recently upgraded. As was mentioned in ITEM's 4 and 5 of this plan, local government has been discussing this problem for years, and action is long overdue. Given Ft. Branch's proximity to the Toyota Motor Manufacturing Plant and its' satellite industries, it is critical that this WWTP becomes capable of handling the ever-increasing flows associated with rapid growth in the US41 corridor. Several county councilmen and commissioners are pressing for action at the present time.
- Outside of the communities served by WWTP's, individual septic systems are the method of wastewater treatment. While many septic systems in the watershed may function adequately, enough systems have been observed contaminating land and water to warrant surveys or preliminary engineering reports (PER) in all four counties of the Highland-Pigeon watershed. The impetus for this first step has to originate with the county commissioners and council. Gibson County Commissioners recently applied to IDEM for Section 205j funds to conduct a PER, but unfortunately, funding was denied. Gibson and the other three counties of the watershed need to keep pursuing means to make these PER's a reality. While the costs associated with repairing or retrofitting septic systems may be prohibitively expensive for individual property owners, funding mechanisms exist that subsidize costs, thereby reducing the owner's expense.



Figure 26: Discharge from failed septic system, Gibson Co., IN

**High phosphorous levels.** There are many types of Best Management Practices (BMP's) available for erosion control on agricultural land. Ranging from the simple, but very effective vegetative filter strip, up to engineered practices such as WASCoB's (water and sediment control basins). Practices are field –specific, not all practices are appropriate on every farm.

These same practices also are effective in reducing phosphorous mobilization and runoff, because phosphorous is usually found attached to soil particles. This fact is somewhat validated by the data- showing that some of the subwatersheds with highest soil loss rates also demonstrate the highest phosphorous loadings. In addition, BMP's to reduce erosion and phosphorous loading also can reduce nitrate concentrations in water leaving agricultural fields.

Practices are usually designed by USDA-NRCS personnel, under the guidance of an Agricultural Engineer, to NRCS specifications as found in the Field Office Technical Guide (FOTG).

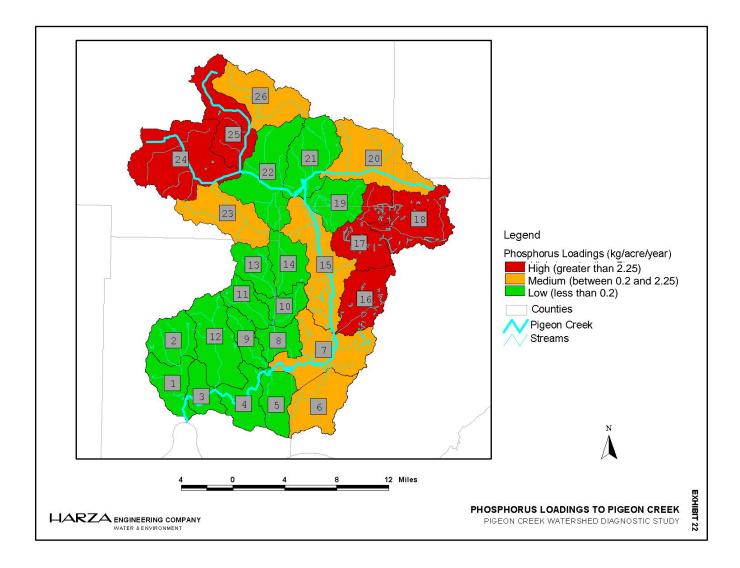
Continuous cropping systems- utilizing cover crops or corn-wheat-soybean-hay rotations- are also effective in reducing phosphorous loading to the stream. No-till corn planting is very effective, but adoption rates are low in Gibson County, the area of the watershed with the most highly erodable land.

For subwatersheds 24 and 25, the following BMP's are recommended: vegetative filter strips on any land adjacent to a stream to control sheet & rill erosion, grassed waterways and/or WASCoB's to control gully erosion, and cover crops or no-till systems to reduce soil- and nutrientloss from fallow fields. Filter strips have the added advantage of moving all chemical and fertilizer application away from surface water. In addition, a Nutrient Management Plan, prepared by a Certified Crop Consultant, should be executed on every farm in the watershed.

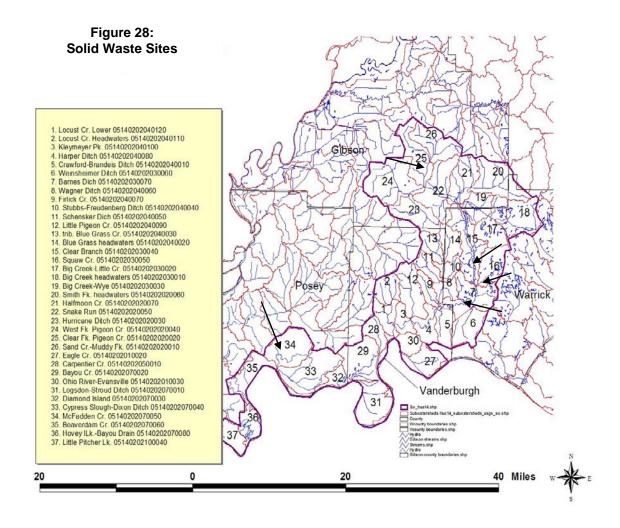
For subwatersheds 16,17 and 18, the same practices would be appropriate on the land that is in crop production. However, these three subwatersheds also have large areas of minimally-reclaimed strip mine land, and also active mining. In the case of the reclaimed ground, additional tree planting, warm-season grasses, retention basins and other practices would be appropriate. Additional buffers and retention would also be appropriate on the active mine land.

Technical assistance and financial incentives are available for most agricultural BMP's through USDA programs such as: Conservation Reserve Program (CRP), Environmental Quality Incentives Program (EQIP) and state programs such as IDNR's Lake and River Enhancement (LARE) program and IDEM's Section 319 nonpoint source program.

## Figure 27



**Illegal solid waste disposal.** "Dumping attracts dumping"- the saying is sad but true. The measure we want to apply to this issue is multi-fold: to begin with, we want to form a partnership of citizens, SWCD, Solid Waste Management District(SWMD), business and industry, county government and others to physically remove and properly dispose of the solid waste dumps in subwatersheds 7,15,16,25 and Reach MF2. As both prelude to and follow-up, news releases and field days will be provided as part of the Educational Opportunities component of this watershed management plan. Funding will be furnished by the partnership through cash, budget line items and in-kind donations. Another parameter of this measure is to restore the riparian vegetation-either destroyed in the process of the cleanup, or removed sometime in the past. The final on-site measure will be the posting of signs describing the cleanup, the partnership, and a reminder to the public of the legal penalties for illegal dumping. All counties in the watershed have SWMD districts that subsidize the cost of citizens' solid waste disposal. It is disheartening that no matter how inexpensive or convenient waste disposal is made, some people still dispose of their unwanted items in an illegal and irresponsible manner. Because of this fact of society, it is imperative that solid waste be a topic of the Educational Opportunities component.



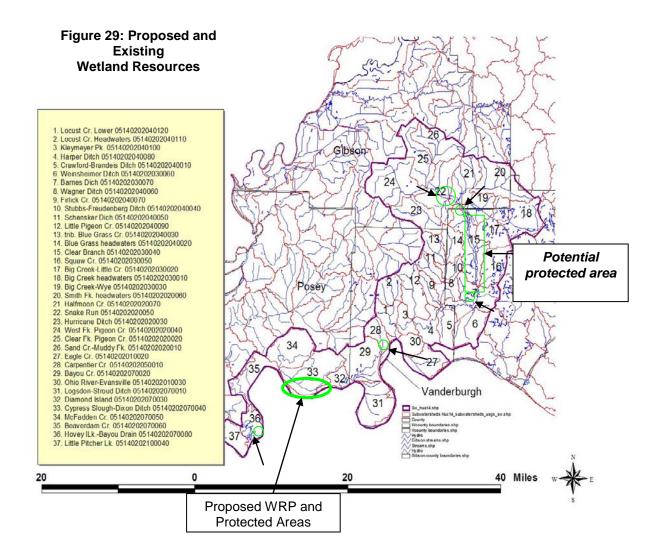
## • Streams impaired for Aquatic Life Use Support (ALUS).

Subwatersheds 23,24,25,26 and McFadden stream reaches MF8,MF9,MF10 will be evaluated for riparian restoration, or at the minimum, filter strips. USDA-NRCS has specifications and planting guidelines for this best management practice, and technical assistance will be provided by SWCD staff, IDNR Resource Specialists and NRCS. Financial incentives are available for this practice through USDA's Conservation Reserve Program, EQIP, DNR's LARE program, and IDEM's Section 319 grants. Given the slow rate of growth for most trees, measures of success, i.e. lower water temperature, woody debris in the channel, increased macroinvertebrate diversity, may not be quantifiable for many years. Estimates of potential riparian restoration (stream miles include both banks):

Watershed 23: 10% existing cover, 22 stream miles Watershed 24: 0% existing cover, 40 stream miles Watershed 25: 20% existing cover, 23 stream miles Watershed 26: 15% existing cover, 26 stream miles Watershed 34: reaches MF8, MF9, MF10 0% existing cover, 15 stream miles

It should be noted that trees are not widely popular with most farmers, especially adjacent to crop fields. Therefore, the potential for actual riparian restoration is probably a small percentage of the stream miles noted above. Filter strips, while not as effective a riparian cover, are better than doing nothing, and in the absence of significant additional financial incentive, have a better chance of adoption by the land owner. Filter strips were identified in previous sections as a suitable BMP for sedimentation and nutrient control.

Only 6% of watershed consists of wetlands. Currently, the natural wetland areas of the watershed are limited to the stream corridor of Pigeon Creek through parts of Gibson and Warrick counties. Other small areas exist in southeastern Posey County, and the Hovey Lake Fish and Wildlife Area in southwest Posey contains significant wetlands. At present, three areas of constructed and /or enhanced wetland exist- two in Warrick County, and one in Vanderburgh. Our recommendation is to work with the landowners in southeastern Posey County to protect the existing wetlands and cypress groves. In addition, we would like to see at least 100 acres of cropland that was converted from wetland restored to its natural state. NRCS' Wetland Reserve Program is an excellent way to meet this goal and has many benefits: NRCS pays for the restoration- tree planting, creation of shallow water areas, etc.; a 30-year or a permanent easement is placed on the acreage, preserving wetlands for future generations; and the landowner retains ownership of the property and is paid an assessed value for the easement.



• Urban erosion control. Urban best management practices (BMPs) are actions or methods that could be used to reduce flow rates and contaminant concentrations in urban runoff. There are essentially two types of urban BMPs: source controls and treatment controls. Source controls are practices that prevent pollution by reducing the amount of pollutants at their source from entering the runoff. Treatment controls refer to devices that remove pollutants from the runoff.

Source controls are pollution prevention programs that target contaminants at their source. Since BMP technology is still imperfect, a good urban BMP program will require certain source controls be implemented in addition to the existing development. Some of the more appropriate and effective source control BMPs are described below.

Public education is a practice intended to educate the general public the proper way of using, storing, and disposal of a variety of hazardous household products that will enter stormwater. The public must become aware that many of the constituents are used in the home and that the way these products are used and disposed of can affect the stormwater quality.

The promotion of good housekeeping practices by municipal employees, the general public, and small businesses can be another effective source control BMP. Good housekeeping practices include storing hazardous products securely, safely, and in original containers; reading and following product instructions; and properly disposing of products. Staffs are needed to train municipal employees and coordinate public education efforts.

Conducting street sweeping on a regular basis can reduce the runoff of pollutants with storm water from street surfaces. When done regularly, street sweeping can remove 50 to 90% of street pollutants from polluting stormwater. Street cleaning program requires a significant capital and O&M budget. A sweeper can cost from \$65,000 to \$120,000 per machine, depending on the type. Evansville has a street sweeping program.

Catch basins must be cleaned periodically to maintain their ability to trap sediment and thereby prevent sewer blockages. Catch basin cleaning can improves both the aesthetics and the quality of the receiving water body. A catch basin that becomes a source rather than a sink for sediments is not being cleaned frequently enough. A catch basin cleaning program also requires a significant capital and O&M budget. For budgetary purposes, Southeastern Wisconsin Regional Planning Commission (1991) recommended a \$8 cleaning cost per basin in communities equipped with vacuum street sweepers. Manual basin cleaning typically costs approximately \$16 per basin. Institutional changes are recommended for improvements to Evansville's catch basin cleaning program.

Since vegetation can help to prevent erosion, take up nutrients, reduce the volume and rate of runoff, and increase groundwater recharge, control can help to maintain the vegetative ground cover on land. Vegetation control typically involves a combination of mechanical methods and careful application of herbicides.

Unlike source controls, treatment controls remove pollutants from the runoff. Treatment controls are most applicable in developing and redeveloping areas. To enhance the performance and longevity of treatment control BMPs, source controls should also be part of the treatment train. Without implementing source controls, the investment in the treatment control facilities will be lost. Some of the more appropriate and effective treatment control BMPs are described below.

Biofilters are vegetation filter strips designed to remove suspended solids by filtering through the vegetation and settling. Dissolved constituents may also be removed through chemical or biological mechanisms mediated by the vegetation and the soil. Some infiltration also occurs through the underlying soil cover.

Detention/retention ponds are the most effective management practices at removing pollutants through settling. Soluble nutrients and organic matter are removed through plant uptake and bacterial activity in the permanent pool of water. They also provide full control of peak discharges for large design storms.

The use of constructed wetlands to treat urban and agricultural storm water is popular. With functions similar to those of retention/detention ponds, constructed wetlands remove pollutants by impounding runoff and settle and retain suspended solids and associated pollutants. They can also be beneficial in the preservation and restoration of the natural balance between surface and ground water, and wildlife habitats. In urban surroundings, the availability of land is frequently a constraint on the applicability of this BMP. Constructed wetlands are discussed in greater detail below.

Hydrodynamic separators are structures built to remove sediments and other pollutants. Having a settling unit in the structure, sediments are efficiently separated by the flowing water. These separators are most effective in removing heavy particulates and floatables. The capital cost of these structures can range from \$2,300 to \$40,000 per pre-cast unit.

Street storage can be used to reduce the rate of runoff entering the sewer system. Street cross sections and storm drain inlets have to be modified so that the street surfaces can store and convey runoff during peak storm events and reduce the hydraulic loading to the combined sewer.

Source controls alone may not be sufficient to bring pollution loadings to levels where aquatic life is not stressed. Over the last two decades, interest has increased for the use of constructed wetlands for treatment of nonpoint source pollution. Constructed wetlands are designed specifically for water treatment and serve in a similar capacity as other water quality BMPs, to minimize pollution prior to its entry into streams, lakes and other receiving waters.

Among the most important treatment processes in wetlands are the purely physical processes of sedimentation. Sedimentation accounts for the relatively high removal rates for suspended solids, the particulate fraction of organic matter and sediment-bound nutrients and metals. Pathogens show good removal rates in constructed wetlands via sedimentation, natural die-off, and UV degradation. Dissolved constituents such as soluble organic matter, ammonia and orthophosphorus tend to have lower removal rates. Soluble organic matter is largely degraded aerobically by bacteria and periphyton. Ammonia is removed through microbial nitrification-denitrification, plant uptake, and volatilization. Nitrate is removed through denitrification and plant uptake. Phosphorus is removed mainly through soil sorption, plant assimilation and burial. Phosphorus removal rates are variable and, while phosphorus removal may be very high in newly constructed wetlands, phosphorus removal rates typically are lower than those of nitrogen in older, established wetlands.

General ranges of removal for various pollutants by constructed wetlands are given below. **Table 15** 

## CONSTRUCTED WETLAND POLLUTANT REMOVAL EFFICIENCY

(Source: Schueler, 1987, Schueler et al. 1992)

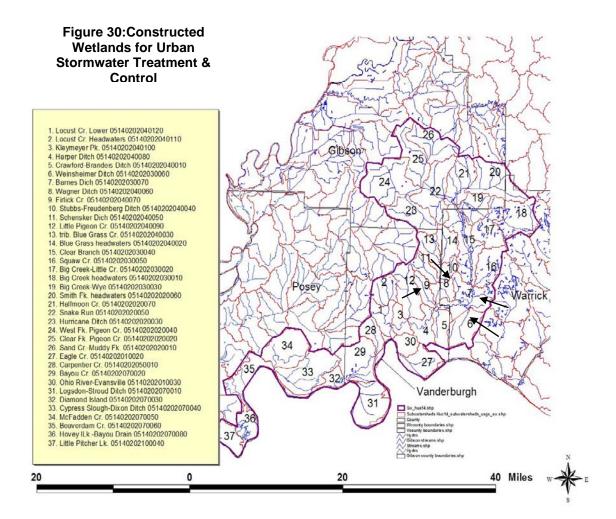
Pollutant	Efficiency
Bacteria	High
Oil and Grease	Very high
BOD	Moderate
Trace metals (sediment-bound)	High
Sediment	High
Total Phosphorus	High
Total Nitrogen	Moderate

Development of constructed wetlands for treatment remains an emerging technology and design criteria continue to evolve. General design considerations include the requirement to reduce runoff velocities and provide opportunities for sedimentation. Generally designers attempt to maximize the hydraulic residence time and the distribution of flow over the treatment area. Constructed wetlands can be a very effective part of a BMP system. While constructed wetlands can be nearly universally applied to point and nonpoint sources in the study area, we have recommended constructed wetlands be considered for priority development in four subwatersheds: 6, 7, 8 and 9 (see map, Figure 30 last pg. this section). Costs for development of wetlands can vary with size, site topography and other factors. Wetlands are generally sized according to treatment needs for the volume and quality of inflows. Treatment wetland unit costs can range from \$5,000 per acre to upwards of \$25,000 per acre. Wetland construction requires permits from the US Army Corps of Engineers, the IDNR, Indiana Department of Environmental Management (IDEM) and, if the site in on a regulated drain, the approval of the County Drainage Board.

We recommend that the appropriate SWCD (or other local sponsor) actively seek the involvement of local landowners in these four subwatersheds. We recommend their involvement initially be as advisors to a LARE-sponsored engineering feasibility study for constructed wetlands in Weinsheimer Ditch, Barnes Ditch, Dennis Wagner Ditch and Firlick Creek subwatersheds. As landowner interest and understanding of wetland systems and their benefits increases, one or more could possibly serve as co-sponsor for construction of the wetland.

There are several agencies providing funding for projects which address water quality, erosion control, storm water, nonpoint source pollution, wetlands, and wildlife. Funding agencies include the branches of the United States Department of Agriculture (Natural Resources Conservation Service (NRCS) and the United States Forest Service), branches of the United States Department of Interior (Fish and Wildlife Service and the Bureau of Reclamation), United States Environmental Protection Agency, and the United States Army Corps of Engineers.

Many of these funding agencies provide money to the states, which in turn, fund such programs as IDEM's Section 319 Nonpoint Source (NPS) Program. Other programs are financed at the state level, such as the LARE Program. At the county level, Indiana's Drainage Code provides authority to Drainage Boards to finance certain types of watershed management projects. We believe that this is an underutilized source of financing of watershed management projects.



# <u>9. Calculating Load Reductions:</u> Using methods appropriate to the situations present in the watershed, calculate estimated load reductions for the management measures identified.

- Load reductions can be estimated for many agricultural and urban best management practices. For agricultural practices financed by Section 319 grant funds, IDEM's "Loading Workbook" is the required method. This may be used to calculate soil, nitrate and phosphate load reductions for: "Ag. Fields and filter strips" -filter strips, prescribed grazing, residue mgt., conservation crop rotation, conservation cover, cover & green manure, critical area planting and strip cropping practices. Under the "Gully Stabilization" heading, practices include grade stabilization structures, grassed waterways, critical area plantings in gully zones, and water & sediment control basins (WASCoB's). Using the spreadsheet under the "Feedlots" heading gives reductions for chemical oxygen demand (COD) and phosphate.
- Urban runoff loadings can also be estimated using the IDEM "Loading Workbook". Reductions by BMP's for: BOD,COD,TSS,lead, copper, zinc, TDS, total nitrate, total kjedahl nitrogen, dissolved phosphate, total phosphate and cadmium can be estimated once the sitespecific information is entered. Practices appropriate for this model include: filter strips, grass swales, infiltration devices, wet detention, wetland detention, dry detention, settling basin, sand filter, water quality inlets, street sweeping, infiltration basins, infiltration trench, porous pavement, concrete grid pavement, sand filter/detention basin, water quality inlet/sand filter, oil & grit separator, and wet pond.
- Load reductions from improvements to Evansville's combined sewer system cannot be estimated at this point. Needless to say, if a particular overflow is eliminated, then that point is no longer a source of contaminant loading. See Appendix C for an idea of what contaminants would be affected by a reduction or elimination in overflows at the three representative CSO's.
- Load reduction estimates: the calculations underlying the IDEM "Loading Workbook" require farm field specific information. And, not every BMP is needed or appropriate on every farm. For the purposes of this watershed management plan, we have made generalizations about soil type, slope, cover factor and acres treated by the BMP.

Assuming filter strips are the prevalent BMP for farm land, and assuming a landowner • adoption rate of 20%- on the 81% of land that is farmland- we estimated the following load reductions for subwatersheds 23,24,25,26:

Example

WWS

95-992

HJK

8/8/1999

## Table 16

## **Agricultural Fields and Filter Strips**

ROO

A ST

10

P. 13 K.

## Please fill in the gray areas below. Once you have successfully estimated

the sediment and nutrient load reductions, please print two (2) copies of this worksheet. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

IDEM Project Manager:	
Project ARN:	
Landowner Initials:	
Date practices completed:	

These may include: **Prescribed Grazing Residue Management, Mulch Till Conservation Crop Rotation** Conservation Cover Cover and Green Manure Critical Area Planting Stripcropping, Contour Stripcropping, Field Filter Strips

## Date practices Please check which BMPs apply:

- Agricultural Field Practices
- Filter Strips

🖸 Filler Sulps			Example	
RUSLE	Before Treatment	After Treatment	Before Treatment	After Treatment
Rainfall-Runoff Erosivity Factor (R)	195	185	120	120
Soil Erodibility Factor (K)	0.42	0.02	0.35	0.35
Length-Slope Factor (LS)	0.14	0.14	0.44	0.44
Cover Management Factor (C)	0.43	0.43	0.7	0.5
Support Practice Factor (P)	Sand and Sand	1	0.775	0.11
Predicted Avg Annual Soil Loss (ton/acre/year)	4.93	4.93	10.03	1.02
		Example	<b>.</b>	

#### 8327 14

Contributing Area (acres) The portion of the treated field which contributes eroded soil to the waterbody. The contributing area is defined by the runoff flowpath and by topography and may differ in size from the actual treated field.

## Please select a gross soil texture:

C	Clav	(clay.	clav	loam.	and silt	clay)	

- ( Silt (silt, silty clay loam, loam, and silt loam)
- C ( Sand (sand, sandy clay, sandy clay loam, sandy loam, and loamy sand)
- C ( Peat

### Estimated Load Reductions for Agricultural Field Practices

	Treated	Example
Sediment Load Reduction (ton/year)	0	85
Phosphorus Load Reduction (Ib/year)	0	100
Nitrogen Load Reduction (Ib/yr)	0	200

## Estimated Additional Load Reductions through Filter Strips

	Filter Strips	Example
Sediment Load Reduction (ton/year)	8133	92
Phosphorus Load Reduction (lb/year)	13837	114
Nitrogen Load Reduction (Ib/yr)	25795	227

## **Total Estimated Load Reductions**

	Total	Example
Sediment Load Reduction (ton/year)	8133	177
Phosphorus Load Reduction (Ib/year)	13837	214
Nitrogen Load Reduction (Ib/yr)	25795	427

Comparing these reductions to the loadings from the Harza study for these four subwatersheds:

Sediment load reduction through filter strips,

8133 tons/year

## divided by

Initial sediment loading, 15,981 tons/year Equals 51% reduction (goal is 50%)

Assuming filter strips are the prevalent BMP for farm land, and assuming a landowner adoption rate of 20%- on the 15% of area that is farmland- we estimated the following sediment load reductions for subwatersheds 16,17 and 18:

## Table 17

#### Agricultural Fields and Filter Strips

e fill in the gray areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies of this workshe Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299). Example IDEM Project Man Project ARN: WWS Landowner Initia 81.13 HJH 8/8/1999 Date practices completed: 1.K

These may include: Prescribed Grazing Residue Management, Mulch Till Conservation Crop Rotation Conservation Cove Cover and Green Man Critical Area Planting Stripcropping, Contour Stripcropping, Field Filter Strips

ck which BMPs apply: Agricultural Field Practice

			Example	
RUSLE	Before Treatment	After Treatment	Before Treatment	After Treatment
Rainfall Runoff Erosivity Factor (R)	100000 <b>1</b> 0000	195	120	120
Soil Erodibility Factor (K)	0.42	0.62	0.35	0.35
Length-Slope Factor (LS)	014	0.14	0.44	0.44
Cover Management Factor (C)	943		0.7	0.5
Support Practice Factor (P)	100 St. 19		0.775	0.11
Predicted Avg Annual Soil Loss (ton/acre/year)	4.93	4.93	10.03	1.02
		Example		

910 Contributing Area (acres) 14 The contributing area is defined by the The portion of the treated field which contributes eroded soil to the wa rbody. runoff flowpath and by topography and may differ in size from the actual tr ted field.

#### ct a gross soil texture

7 114
8 227

(Canononia	
Total	Example
1172	177
1887	214
3518	427
	1172 1887

Comparing these reductions to the loadings from the Harza study for these three subwatersheds:

Sediment load reduction through filter strips, 1172 tons/year divided by

Initial sediment loading, 3347 tons/year Equals 35% reduction (goal is 50%)

Goal must be met through higher landowner adoption rate or additional field practices. Keep in mind that these three areas contain significant areas of reclaimed and active mining

 Assuming filter strips are the prevalent BMP for farm land, and assuming a landowner adoption rate of 20%- on the 50% of area that is farmland- we estimated the following sediment reductions for subwatershed 6:

## Table 18

#### **Agricultural Fields and Filter Strips**

Please fill in the <u>gray</u> areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies of this worksheet.

Attach both copies to the 319A or 319A to cat-share form. If you have any questions, please contact Wes Stone (317/233-6299).

IDEM Project Manager:
Project ARN:
Landowner Initials:
Date practices completed:

Example
WWS
95-992
HJK
8/8/1999

These may include: Prescribed Grazing Residue Management, Mulch Till Conservation Crop Rotation Conservation Cover Cover and Green Manure Critical Area Planting Stripcropping, Contour Stripcropping, Field Filter Strips

Please check which BMPs apply:

Agricultural Field Practices

Filter Strips

			Example	
RUSLE	Before Treatment	After Treatment	Before Treatment	After Treatment
Rainfall-Runoff Erosivity Factor (R)	16 <b>6</b> - 201		120	120
Soil Erodibility Factor (K)	0.42	6.2	0.35	0.35
Length-Slope Factor (LS)	0.14		0.44	0.44
Cover Management Factor (C)	6.0	0.45	0.7	0.5
Support Practice Factor (P)	4	9	0.775	0.11
Predicted Avg Annual Soil Loss (ton/acre/year)	4.93	4.93	10.03	1.02
	···· ·	Exampie		

E

Contributing Area (acres)

910 14

The portion of the treated field which contributes eroded soil to the waterbody. The contributing area is defined by the runoff flowpath and by topography and may differ in size from the actual treated field.

#### Please select a gross soil texture:

- C (Clay (clay, clay loam, and silt clay)
- 🗭 c Silt (silt, silty clay loarn, loarn, and silt loarn)
- $\subset$   $_{\rm C}$  Sand (sand, sandy clay, sandy clay loam, sandy loam, and loamy sand)
- C c Peat

Estimated Load Reductions for Agricultural Field Practices				
-	Treated	Example		
Sediment Load Reduction (ton/year)	0	85		
Phosphorus Load Reduction (Ib/year)	0	100		
Nitrogen Load Reduction (Ib/yr)	0	200		

Estimated Additional Load Reductions through Filter Strips

	Filter Strips	Example
Sediment Load Reduction (ton/year)	1172	92
Phosphorus Load Reduction (ib/year)	1887	114
Nitrogen Load Reduction (lb/yr)	3518	227

#### Total Estimated Load Reductions

	Total	Example
Sediment Load Reduction (ton/year)	1172	177
Phosphorus Load Reduction (Ib/year)	1887	214
Nitrogen Load Reduction (lb/yr)	3518	427

• Comparing these reductions to the loadings from the Harza study for this subwatershed:

Sediment load reduction through filter strips,

1172 tons/year divided by

Initial sediment loading, 1559 tons/year Equals 75% reduction (goal is 50%)  Assuming filter strips are the prevalent BMP for farm land, and assuming a landowner adoption rate of 20%- on the 81% of land that is farmland- we estimated the following phosphorous reductions for subwatersheds 24 and 25:
 Table 19

## **Agricultural Fields and Filter Strips**

## Please fill in the <u>gray</u> areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies of this worksheet.

the sediment and nutrient load reductions, please print two (2) copies of this works. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

	Example
SBO S	WWS
	95-992
723.25	HJK
6/15/2013	8/8/1999

These may Include: Prescribed Grazing Residue Management, Mulch Till Conservation Crop Rotation Conservation Cover Cover and Green Manure Critical Area Planting Stripcropping, Contour Stripcropping, Field Filter Strips

Please check which BMPs apply:

Landowner Initials:

IDEM Project Manager:

Date practices completed:

Agricultural Field Practices

Project ARN:

Filter Strips

RUSLE	Before Treatment	After Treatment	Before Treatment	After Treatment
Rainfall-Runoff Erosivity Factor (R)			120	120
Soil Erodibility Factor (K)	0.42	0.4.5	0.36	0.35
Length-Slope Factor (LS)	0.14		0.44	0.44
Cover Management Factor (C)	0/3	0.0	0.7	0.5
Support Practice Factor (P)			0.775	0.11
Predicted Avg Annual Soil Loss (ton/acre/year)	4.93	4.93	10.03	1.02
	· · · · · · · · · · · · · · · · · · ·	Example		

Contributing Area (acres) 14 The portion of the treated field which contributes eroded soil to the waterbody. The contributing area is defined by the runoff flowpeth and by topography and may differ in size from the actual treated field.

## Please select a gross soil texture:

- C ( Clay (clay, clay loarn, and silt clay)
- e c Silt (silt, silty clay loam, loam, and silt loam)
- C c Sand (sand, sandy clay, sandy clay loam, sandy loam, and loamy sand)
- C c Peat

## Estimated Load Reductions for Agricultural Field Practices

	Treated	Example
Sediment Load Reduction (ton/year)	0	85
Phosphorus Load Reduction (lb/year)	0	100
Nitrogen Load Reduction (Ib/yr)	0	200

### Estimated Additional Load Reductions through Filter Strips

	Filter Strips	Example
Sediment Load Reduction (ton/year)	5140	92
Phosphorus Load Reduction (Ib/year)	8631	114
Nitrogen Load Reduction (Ib/yr)	16091	227

### **Total Estimated Load Reductions**

	Total	Example
Sediment Load Reduction (ton/year)	5140	177
Phosphorus Load Reduction (lb/year)	8631	214
Nitrogen Load Reduction (lb/yr)	16091	427

 Comparing these reductions to the phosphorous loadings from the Harza study for these two subwatersheds:

Phosphorous load reduction through filter strips, 3923 kg/year divided by

Initial phosphorous loading, 15,854 kg/year

Equals 25% reduction (goal is 50%).

Goal will need to be met through other practices: no-till, residue mgt., cover crops, etc.

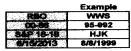
Assuming filter strips are the prevalent BMP for farm land, and assuming a landowner • adoption rate of 20%- on the 15% of land that is farm- we estimated the following phosphorous reductions for subwatersheds 16,17 and 18:

## Table 20

#### **Agricultural Fields and Filter Strips**

use fill in the gray areas below. Once you have successfully estimated Ple the sediment and nutrient load reductions, please print two (2) copies of this worksheet. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

> IDEM Project Manager: Project ARN: Landowner Initials: Date practices completed:



These may include: Prescribed Grazing Residue Management, Mulch Till Conservation Crop Rotation Conservation Cover Cover and Green Mana Critical Area Planting Stripcropping, Contour Stripcropping, Field Filter Strips

ek which BMPs apply: Agricultural Field Practices Filter Strips

			C. ACONTINATO	
	Before	After	Before	After
RUSLE	Treatment	Treatment	Treatment	Treatment
Rainfall-Runoff Erosivity Factor (R)		105	120	120
Soil Erodibility Factor (K)	0.42	10 C	0.35	0.35
Length-Slope Factor (LS)	1465 B 14 L 149 B 4	0.14	0.44	0.44
Cover Management Factor (C)	9.43		0.7	0.5
Support Practice Factor (P)			0.775	0.11
Predicted Avg Annual Soil Loss (ton/acre/year)	4.93	4.93	10.03	1.02
		Evenanie		

Contributing Area (acres)

910 ÷,

Evample

The portion of the treated field which contributes eroded soil to the waterbody. The contributing area is defined by the runoff flowpath and by topography and may differ in size from the actual treated field.

#### e select a gross soil texture:

ſ	C ( Clay (clay, clay loam, and silt clay)
	Silt (silt, silty clay loam, loam, and silt loam)
	C c Sand (sand, sandy clay, sandy clay loam, sandy loam, and loamy sand)
1	⊂ c Peat

Estimated Load Reductions for Agricultural Field Practices		
	Treated	Example
Sediment Load Reduction (ton/year)	0	85
Phosphorus Load Reduction (Ib/year)	0	100
Nitrogen Load Reduction (Ib/yr)	0	200

Estimated Additional Load Reduc	Additional Load Reductions through Filter Strips		
	Filter Strips	Example	
Sediment Load Reduction (ton/year)	1172	92	
Phosphorus Load Reduction (Ib/year)	1887	114	
Nitrogen Load Reduction (Ib/yr)	3618	227	

## Total Estimated Load Reductions

lotal	Example
1172	177
1887	214
3518	427
	1172 1887

Comparing these reductions to the loadings from the Harza study for these three subwatersheds:

Phosphorous load reduction through filter strips,

## 858 kg/year

## divided by

Initial phosphorous loading, 4418 kg/year

Equals 19% reduction (goal is 50%)

Again, goal must be met by higher adoption on farmland, additional practices and/or addressing other sources of loading, i.e. mining.

 Assuming filter strips are the prevalent BMP for farm land, and assuming a landowner adoption rate of 50%, we estimate the following reductions for stream reaches MF4,8,9 and 10 of subwatershed 34, McFadden Creek:

## Table 21

#### **Agricultural Fields and Filter Strips**

Please fill in the <u>gray</u> areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies of this worksheet. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

	Example
RBO	WWS
00-86	95-992
Moraden Cr	HJK
6/15/2013	8/8/1999

These may Include: Prescribed Grazing Residue Management, Mulch Till Conservation Crop Rotation Conservation Cover Cover and Green Manure Critical Area Planting Stripcropping, Contour Stripcropping, Field Filter Strips

Example

Please check which BMPs apply:

Landowner Initials: Date practices completed:

Project ARN:

IDEM Project Manager:

Filter Strips

		Example	
Before	After	Before	After
Treatment	Treatment	Treatment	Treatment
210	210	120	120
0.98	0.33	0.35	0.35
0.14	0.14	0.44	0.44
0.43	0.43	0.7	0.5
1	1	0.775	0.11
4.55	4.55	10.03	1.02
	Example		
	Treatment 210 0.96 0.14 0.43	Treatment         Treatment           210         216           0.95         0.386           0.14         0.14           0.43         0.43           1         1           4.55         4.55	Before Treatment         After Treatment         Before Treatment           210         210         120           0.98         0.36         0.35           0.14         0.14         0.44           0.43         0.43         0.7           1         1         0.775           4.55         4.55         10.03

## Contributing Area (acres) 3345 14

The portion of the treated field which contributes eroded soil to the waterbody. The contributing area is defined by the runoff flowpath and by topography and may differ in size from the actual treated field.

## Please select a gross soll texture:

- C ( Clay (clay, clay loarn, and silt clay)
- € ( Silt (silt, silty clay loam, loam, and silt loam)
- c Sand (sand, sandy clay, sandy clay loam, sandy loam, and loamy sand)
- C c Peat

	Treated	Example
Sediment Load Reduction (ton/year)	0	85
Phosphorus Load Reduction (Ib/year)	0	100
Nitrogen Load Reduction (lb/yr)	0	200

#### Estimated Additional Load Reductions through Filter Strips Filter Strips Example

Sediment Load Reduction (ton/year)	3380	92
Phosphorus Load Reduction (Ib/year)	5711	114
Nitrogen Load Reduction (lb/yr)	10647	227

#### Total Estimated Load Reductions

	Total	Example
Sediment Load Reduction (ton/year)	3380	177
Phosphorus Load Reduction (lb/year)	5711	214
Nitrogen Load Reduction (lb/yr)	10647	427

 These reductions are significantly higher than the calculated pre-BMP loadings, indicating that the limited data for this watershed- taken one time during dry weather- is not sufficient to accurately predict soil erosion. The same problem exists for the phosphorous loadings, since phosphorous is frequently bound to soil particles. For nitrogen, however, the IDEM "Loading Workbook" produced meaningful results:

Nitrogen load reduction, 10,647 lbs/year Divided by Pre-BMP nitrogen load, 19,890 lbs/year Equals 53% reduction (goal is 50%) • Feedlots and other livestock areas: Phosphorous and chemical oxygen demand (COD)load reductions can be estimated using IDEM's "Loading Workbook". Two assumptions exist with this method: the feedlot is adjacent to a hydrologic system without any buffering; and installing the animal waste system will prevent any further pollutants from reaching the hydrological system. In situations where the feedlot cannot be shown directly impacting the stream, this method should not be used. In subwatershed 20, Smith Fork headwaters, only one livestock operation fits the assumptions of this method (see worksheet next page). That is not to say that developing manure management plans and other BMP's for the other operations will not have a positive effect on water quality, it cannot be estimated using IDEM's "Loading Workbook". It is possible that NRCS has other methods to estimate load reductions. If so, we will use them when the practice is actually being planned.

## **Feedlot Pollution Reduction**

Please fill in the <u>gray</u> areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies this worksheet. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

Notes: An animal lot refers to an open lot or combination of open lots intended for confined feeding, breeding, raising or holding animals. It is specifically designed as a confinement area in which manure accumulates or where the concentration of animals is such that vegetation cannot be maintained. The purpose of these calculations is to represent Chemical Oxygen Demand (COD) and phosphorus (P) reductions after an animal waste system is installed. This method has two assumptions: 1) the feedlot is adjacent to a receiving hydrological system without any buffering areas; and 2) installing the animal waste system will prevent any further pollutants from the lot from reaching the hydrologic system. Feedlots that cannot show impact to the hydrologic system being protected should not be evaluated with this computation.

# STEP 1 5 Contributing Area (acres): the area contributing polluted water to the discharge point(s).

STEP 2	Percent Paved:	Percer	nt of the contributing area that is paved
		•	0-24%
		C	25-49%
		C	50-74%
		<u>C</u>	75-100%

STEP		
3	4 Design rainfall (inches) based on 25 year frequency - 24 hour duration	
	event (consult your local NRCS staff)	-

STEP 4	Animal Numbers	Animal Type	Design Weight*	
	100	Slaughter Steer	1,000	*Design weight in pounds. Interpolation
	0	Young Beef	500	of values should be based on the maximum
	0	Dairy Cow	1,400	weight animals would be expected to reach.
	0	Young Dairy Stock	500	
	0	Swine	200	
	0	Feeder Pig	50	
	0	Sheep	100	
	0	Turkey	10	
	0	Chicken	4	
	0	Duck	4	
	0	Horse	1,000	

END			
	Pollutant Load Reductions		신다. 것같
and the second	Chemical Oxygen Demand reduction (lbs)	3,082	
	Phosphorus reduction (lbs)	58	

Table 22

## Load reductions can be calculated for the swine operation in subwatershed 34, reach 8:

## **Feedlot Pollution Reduction**

Please fill in the <u>grav</u> areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies this worksheet. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

Notes: An animal lot refers to an open lot or combination of open lots intended for confined feeding, breeding, raising or holding animals. It is specifically designed as a confinement area in which manure accumulates or where the concentration of animals is such that vegetation cannot be maintained. The purpose of these calculations is to represent Chemical Oxygen Demand (COD) and phosphorus (P) reductions after an animal waste system is installed. This method has two assumptions: 1) the feedlot is adjacent to a receiving hydrological system without any buffering areas; and 2) installing the animal waste system will prevent any further pollutants from the lot from reaching the hydrologic system. Feedlots that cannot show impact to the hydrologic system being protected should not be evaluated with this computation.

## STEP Contributing Area (acres): the area contributing polluted water to the discharge point(s).

STEP 2	Percent Paved:	Percer	nt of the cor	ntributing area that is paved	
	r crociit i arcar	(F	0-24%	<b>.</b>	
		C	25-49%		
		C	50-74%		
		C.	75-100%		

STEP 3

Design rainfall (inches) based on 25 year frequency - 24 hour duration
 event (consult your local NRCS staff)

STEP 4	Animal Numbers	Animal Type	Design Weight*	
	0	Slaughter Steer	1,000	*Design weight in pounds. Interpolation
	0	Young Beef	500	of values should be based on the maximum
	0	Dairy Cow	1,400	weight animals would be expected to reach.
	0	Young Dairy Stock	500	
	300	Swine	200	
	1200	Feeder Pig	50	
	0	Sheep	100	
	0	Turkey	10	
	0	Chicken	4	
	0	Duck	4	
	0	Horse	1,000	]

END
Pollutant Load Reductions
Chemical Oxygen Demand reduction (lbs) 3,051
Phosphorus reduction (lbs) 96



## And for the dairy operation in Reach MF9:

## **Feedlot Pollution Reduction**

Please fill in the <u>gray</u> areas below. Once you have successfully estimated the sediment and nutrient load reductions, please print two (2) copies this worksheet. Attach both copies to the 319A or 319U cost-share form. If you have any questions, please contact Wes Stone (317/233-6299).

Notes: An animal lot refers to an open lot or combination of open lots intended for confined feeding, breeding, raising or holding animals. It is specifically designed as a confinement area in which manure accumulates or where the concentration of animals is such that vegetation cannot be maintained. The purpose of these calculations is to represent Chemical Oxygen Demand (COD) and phosphorus (P) reductions after an animal waste system is installed. This method has two assumptions: 1) the feedlot is adjacent to a receiving hydrological system without any buffering areas; and 2) installing the animal waste system will prevent any further pollutants from the lot from reaching the hydrologic system. Feedlots that cannot show impact to the hydrologic system being protected should not be evaluated with this computation.

## STEP Contributing Area (acres): the area contributing polluted water to the discharge point(s).

1	SIEP			
I	2	Percent Paved:	Percen	nt of the contributing area that is paved
I			0	0-24%
			C	25-49%
I			æ	50-74%
I			C	75-100%

## STEP 3

4 Design rainfall (inches) based on 25 year frequency - 24 hour duration event (consult your local NRCS staff)

STEP				
4	Animal Numbers	Animal Type	Design Weight*	
	0	Slaughter Steer	1,000	*Design weight in pounds. Interpolation
	0	Young Beef	500	of values should be based on the maximum
	50	Dairy Cow	1,400	weight animals would be expected to reach.
	10	Young Dairy Stock	500	
	0	Swine	200	
	0	Feeder Pig	50	
	0	Sheep	100	
	0	Turkey	10	
	0	Chicken	4	
	0	Duck	4	
	0	Horse	1,000	

END			
	Pollutant Load Reductions		2014년 2017
	Chemical Oxygen Demand reduction (lbs)	3,289	
	Phosphorus reduction (lbs)	31	

Table 24

The turkey operation in MF4 is contributing inadequately-treated wastewater to the stream, but that does not fit this loading model. As in the Smith Fork subwatershed, a manure management plan will be developed, but that, too cannot be quantified with this model.

• Urban erosion: IDEM's "Loading Workbook" is available to calculate load reductions from urban stormwater control. We do not have data for particular sites at the present time, but this model will be useful in the near future.

•

<u>10. Implementing the Measures:</u> Describe the planned order of implementation, the time requirements for implementing the plan, who is responsible for carrying out tasks, and what milestones to check.

- Highland-Pigeon watershed has been subjected to human alteration-and in some casesabuse over the past 200 years. It is reasonable to say that meaningful recovery and restoration will take at least 20 to 50 years. To that end, we need to narrow our focus and start with areas of the watershed where we can make the greatest impact in the shortest time- with the available resources. <u>An "Action Register" has been developed for the</u> goals of this watershed management plan, and may be found on the last page of this section.
- In order to implement this plan over the next three to five years, we will need the following estimated financial resources:
  - Install 75 acres (at 20ft. wide) of filter strip in subwatersheds 6,16,17,18,23,24,25,26, MF4,8 and 9: \$15,000 (source: CRP cost share for installation X stream length in feet X 20ft. width, divided by 43,560 ft2/acre X 20% participation)
  - Develop and implement nutrient management plans for subwatersheds 16,17,18,24 and 25: \$60,000 (source: subwatershed acreage X % agric. X 20% participation X \$10 acre)
  - 3. Develop and implement manure mgt. plans in subwatersheds 20, MF4, 8 and 9: \$40,000 (source: based on size of facility)
  - 4. Plan, survey, design and install waste mgt. practices in subwatersheds 20, MF4, 8 and 9: **\$33,000 (source NRCS estimates, DNR-LARE estimates)**
  - Preliminary Engineering Reports for wastewater disposal systems, Gibson, Vanderburgh, Warrick and Posey counties: Gibson, \$30,000; Vanderburgh, \$20,000; Warrick, \$30,000; Posey, \$7500 (25% of county in watershed) Total: \$87,500 (source RCAP estimate on Gibson 205j application)
  - Provide educational opportunities specific to watersheds and water quality for all citizens of the watershed. Encourage landowners to install BMP's. Our proposal is to hire a "Watershed Educator": \$35,000 to \$50,000 annually (source: current SWCD Educator salary & benefits, current Watershed Coordinator salary, benefits & mileage + materials)
- Sources of financial and technical assistance: We anticipate that most agricultural BMP's will be funded through USDA programs, including: For privately owned land, the USDA offers landowners natural resource programs that provide incentives and assistance to landowners for implementing conservation practices on the land. Some of the USDA's natural resource programs include :
  - Conservation Reserve Program (CRP)
  - Conservation Reserve Enhancement Program (CREP)
  - Environmental Quality Incentives Program (EQIP)
  - Forest Legacy Program (FLP)
  - Forest Stewardship Program (FSP)
  - Forestry Incentives Program (FIP)
  - Small Watershed Program
  - Stewardship Incentive Program
  - Wetlands Reserve Program
  - Wildlife Habitat Incentives Program
  - It is also anticipated that additional IDNR Lake and River Enhancement (LARE) areas will be designated within the watershed. In fact, subwatershed 34- McFadden Creek has recently been awarded an additional \$20,000 for land treatment projects. When combined with the incentives of the USDA programs, BMP's become very attractive to landowners and operators.

- We also plan to apply for additional 319 grants for priority subwatersheds to provide cost share, educational opportunities and technical assistance.
- Technical assistance will be provided by the Indiana Conservation Partnership, which includes NRCS, IDNR-Div. Of Soil Conservation and the Soil & Water Conservation Districts.
- Technical assistance for domestic wastewater issues will be provided by county health departments, Indiana State Dept. of Health, Rural Community Assistance Program and various branches of IDEM. Financial assistance will be provided through the state revolving loan fund and other grants.
- Progress reporting details are included in the "Action Register" at the end of this section.
- As noted earlier in this section, it took 200 years of human alteration to degrade the watershed to its current condition. It will take much more than 3-5 years to show progress on an eight-digit hydrologic unit code area, especially an area of 300,000 + acres. We intend to concentrate our BMP efforts on the 14-digit subwatersheds, one or two at a time, where we can make a measurable difference. Our success with this approach has been demonstrated in subwatershed 34, McFadden Creek. This document, through regular review and update, can serve as the basis for long-term planning for Highland-Pigeon watershed.
- Agreements with landowners installing BMP's generally take one year from initial application to actual installation of the pratice. An exception to this generalization is the Wetland Reserve Program (WRP) which can be a lengthy process due the requirements of the program. If the funding is available for WRP, and the application ranks high on the competitive list, it should not take more than 3-5 years from initial application to protected/enhanced wetland.

## • Milestones: Measuring progress.

- 1. Progress for Goals 1 and 2 above will be quantified by number of acres installed (for filter strips and other buffer BMP's) and number of acres planned for nutrient management.
- 2. For Goal 3, number of manure management plans written and implemented out of total number plans possible (6), for the designated subwatersheds.
- 3. For Goal 4, number of practices completed.
- 4. For Goal 5, number of PER's completed out of 4 needed.
- 5. For Goal 6, number of educational programs presented, articles published, landowners contacted.

ACTION REGISTER	HIGHLAND – PIGEON WATERSHED MANAGEMENT PLAN		
GOAL	BY WHEN	BY WHOM	WITH WHAT RESOURCES
1. Install 75 acres of filter strip in subwatersheds 6,16,17,18,23,24,25,26, MF4,8 and 9	October 31, 2008	Agricultural Landowners	Tech. assistance from In. Conservation Ptnshp. Financial assistance from USDA, IDEM and IDNR
2. Develop and implement nutrient management plans on 6000 acres in subwatersheds 16,17,18,24 and 25	October 31, 2008	Agricultural Landowners	Tech. assistance from In. Conservation Ptnshp. Financial assistance from USDA, IDEM and IDNR
3. Develop and implement manure mgt. plans in subwatersheds 20, MF4, 8 and 9	October 31, 2005	Agricultural Landowners	Tech. assistance from In. Conservation Ptnshp. Financial assistance from USDA, IDEM and IDNR
4. Plan, survey, design and install waste mgt. practices in subwatersheds 20, MF4, 8 and 9	October 31, 2005	Agricultural Landowners	Tech. assistance from In. Conservation Ptnshp. Financial assistance from USDA, IDEM and IDNR

Table 25

ACTION REGISTER. HIGHLAND - FIGEON WATERSHED MANAGEMENT FLAN Conunded				
5. Preliminary	October 31, 2008	County Commissioners,	Tech. Assistance from	
Engineering Reports		County Council, others.	IDEM, RCAP, ISDH,	
for wastewater			engineering firms.	
disposal systems,			Financial assistance from	
Gibson, Vanderburgh,			Revolving Loan Fund, IDEM.	
Warrick and Posey				
counties				
6. Provide educational	Continuously.	SWCD's, local government.	Tech. Assistance from In.	
opportunities specific			Conservation Partnership,	
to watersheds and			IDEM, Purdue Extension	
			Svc., others.	
water quality for all				
citizens of the			Financial assistance from:	
watershed. Encourage			SWCD's, IDEM, corporate	
landowners to install			partners.	
BMP's.				

## ACTION REGISTER: HIGHLAND – PIGEON WATERSHED MANAGEMENT PLAN... continued

**11.** Monitoring Indicators: Describe how indicators will be monitored to evaluate the effectiveness of implementation. If water quality standards and criteria are selected as indicators, describe how water quality will be monitored. Monitoring for other goals may include spot-checking, landowner participation, adoption of practices, or other measurements.

## Monitoring Plan for short-term goals:

- 1. Reduce sediment loading by 50% or to "T" levels Action:
  - Install 75 acres (at 20ft. wide) of filter strip in subwatersheds 6,16,17,18,23,24,25,26, MF4,8,9 and 10.
- 2. Action:
  - Develop and implement nutrient management plans for subwatersheds 16,17,18,24 and 25.

## Monitoring:

- Gauged by landowner participation, progress will be tracked by In. Conservation Partnership members using ArcView, and reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
- Gauged by load reduction over time, water quality monitoring will be performed using Hoosier Riverwatch "Advanced Chemical Monitoring" and "Stream Flow" methods, except for Total Suspended Solids (TSS), which will need to be performed by a laboratory. Samples for stream flow, TSS, nitrate, and ortho & total phosphate will be analyzed biannually- during both wet-season and dryseason conditions, by trained personnel. Results will be used to compute loadings and compared to baseline measurements. Monitoring sites will be the same as those used during Harza's Diagnostic Study of Pigeon Creek and McFadden Creek.(see map, Figure 30, at end of this section) Monitoring will not begin until significant adoption of BMP's has occurred.

## 3. Action:

• Develop and implement manure mgt. plans in subwatersheds 20, MF4, 8 and 9.

## Monitoring:

- Gauged by percentage of landowner participation in targeted watersheds, progress will be tracked by In. Conservation Partnership members using ArcView, and reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
- 4. Action:
  - Plan, survey, design and install waste mgt. practices in subwatersheds 20, MF4, 8 and 9.

## Monitoring:

- Gauged by percentage of landowner participation in targeted watersheds (confirmed by site visits), progress will be tracked by In. Conservation Partnership members using ArcView, and reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
- 5. Action:
  - Preliminary Engineering Reports for wastewater disposal systems, Gibson, Vanderburgh, Warrick and Posey counties.

Monitoring:

- Gauged by initiation and completion of PER's in four counties in the watershed. Reported semi-annually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.
- 6. Action:
  - Provide educational opportunities specific to watersheds and water quality for all citizens of the watershed. Encourage landowners to install BMP's. Our proposal is to hire a "Watershed Educator".

## Monitoring:

 After hiring Watershed Educator, success will be gauged by: number of stakeholders exposed to watershed information or programs; quantity of programs presented; quantity of news releases/articles published; number of students exposed to hands-on water quality testing; number of agricultural land owners/users contacted about best management pratices. Reported monthly to SWCD's, semiannually to Partnership and IDEM. Progress will be noted in updates/revisions to this Watershed Management Plan.

Figure 31

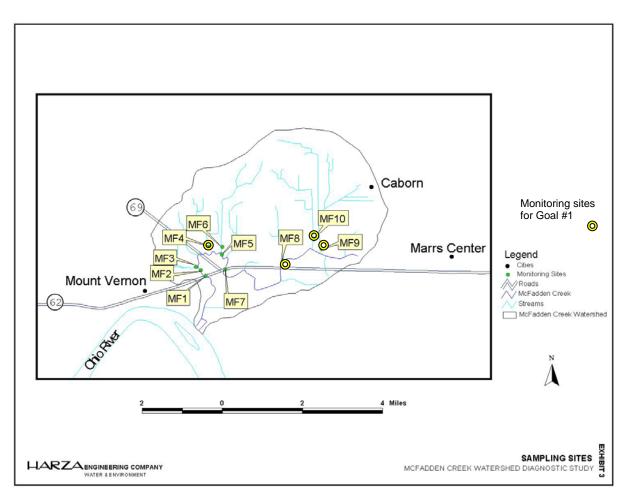
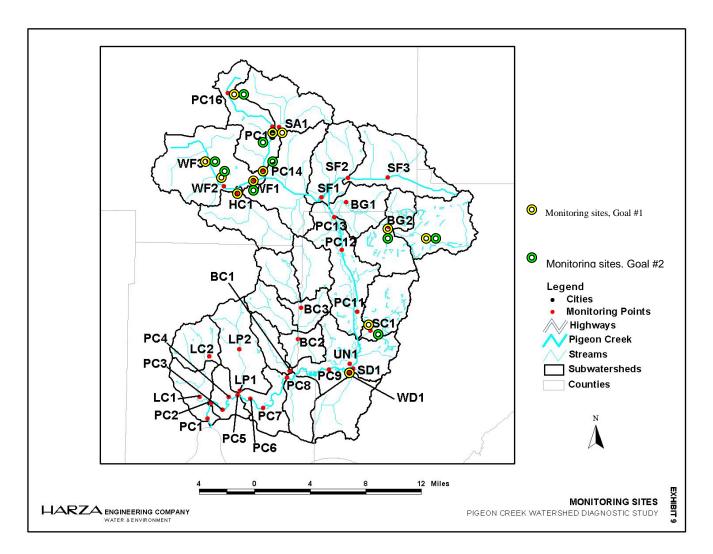


Figure 32



## <u>12. Evaluating and Adapting the Plan:</u> Describe when the watershed plan will be reevaluated; who will do it; who is responsible for revisions or adaptations to the plan.

- The Highland Pigeon Watershed Management Plan should be re-evaluated after the first 3 to 5 years of implementation.
- Re-evaluation should be the responsibility of the Pigeon-Highland Watershed Steering Committee (PHWSC), with input from the members of the Indiana Conservation Partnership and IDEM Watershed Management Section.
- Revisions, updates and/or adaptations should be brought to the attention of PHWSC by Partnership staff.
- While no TMDL's are scheduled for implementation in the near future, revision and adaptation to the Plan will be made to include the provisions of the TMDL when it occurs.

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#### Figures

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- 12. Sediment loading
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- 18. McFadden Creek E. Coli exceedances
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- 13. Sites exceeding E. coli standard- Pigeon Creek
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- 15. Constructed wetland efficiency
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- Sediment load reductions for subwatershed
   6
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- 20. Phosphorous load reductions for subwatersheds 16,17,18
- 21. Load reductions for McFadden Creek
- 22. Feedlot reductions-Smith Fork
- 23. Feedlot reduction-McFadden Creek- swine
- 24. Feedlot reduction-McFadden Creek- dairy
- 25. Action register

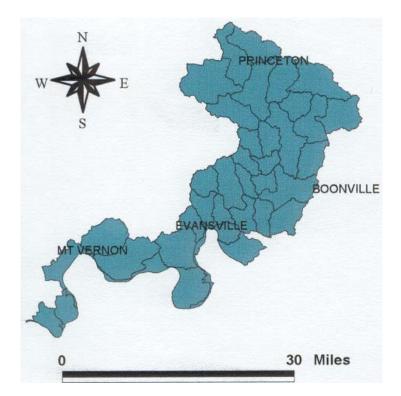
#### List of Acronyms with Definitions

ALUS Aquatic Life Use Support **BMP Best Management Practice BOD Biochemical Oxygen Demand CRP** Conservation Reserve Program **CSO** Combined Sewage Overflow CSS Combined Sewage System DO Dissolved Oxygen **EMC Environmental Management Corporation** EPA United States Environmental Protection Agency EQIP Environmental Quality Incentives Program EWSU Evansville Water and Sewer Utility FBI Family Biotic Index **GIS Geographic Information System** HUC Hydrologic Unit Code IDEM Indiana Department of Environmental Management IDNR Indiana Department of Natural Resources ISDH Indiana State Department of Health LARE Lake and River Enhancement Program LTCP Long Term Control Plan NPDES National Pollutant Discharge Elimination System NPS Nonpoint Source Pollution NRCS Natural Resources Conservation Service PCS Permit Compliance System PER Preliminary Engineering Report PHWSC Pigeon Highland Watershed Steering Committee **QHEI** Qualitative Habitat Evaluation Index **RBP** Rapid Bioassessment Protocol RC&D Resource Conservation & Development SRCER Stream Reach Characterization and Evaluation Report STORET Storage and Retrieval Database System SWCD Soil & Water Conservation District TKN Total Kjeldahl Nitrogen TSS Total Suspended Solids UAA Use Attainability Analysis USDA United States Department of Agriculture USLE Universal Soil Loss Equation WWTP Wastewater Treatment Plant WRP Wetlands Reserve Program

## Watershed Management Plan

For

# **Highland-Pigeon Watershed**



<u>Appendix A:</u> Data from Harza's Diagnostic Study of Pigeon Creek; Data from IDEM Assessment Branch Study of Pigeon Creek within Vanderburgh Co., IN

WATE	R QUALITY RESUL	TS FROM N	/AY 2000										
Site	Water body	Temp (C)	Conductivity (umhos)		DO (mg/L)			Total Kjeldahl N (mg/L)	Nitrate N (mg/L)	Phosphorus (mg/L)	BOD (mg/L)	Suspended solids (mg/L)	E. coli (per 100 mL)
PC1	Pigeon Creek	22	1,192	7.82	17	206	0.33	<1.0	0.87	0.4	<2.5	32	50
PC2	Pigeon Creek	22.5	1,724	7.9	18.9	230	0.13	1.1	1.0	0.41	<2.5	66	50
PC3	Pigeon Creek	21.3	1,303	7.74	14.8	172	0.43	1.7	2.0	0.68	<2.5	83	110
PC4	Pigeon Creek	21.4	1,643	7.97	15	180	0.36	5.0	0.87	0.43	<2.5	65	120
'C4 du	ol						0.22	<1.0	0.88	0.42	<2.5	62	70
PC5	Pigeon Creek	22.8	1,667	7.88	17.3	213	1.8	<1.0	0.78	0.4	<2.5	51	130
PC6	Pigeon Creek	20.6	1,663	7.89	14.3	168	0.11	<1.0	0.68	0.42	<2.5	200	2000
PC7	Pigeon Creek	22.3	1,227	7.89	17.2	209	2.0	<1.0	0.96	0.43	<2.5	79	48
PC8	Pigeon Creek	20.5	1,793	7.8	8.5	100	0.65	3.5	0.52	0.59	<2.5	54	63
PC9	Pigeon Creek	23.5	1,765	8.01	20.1	254	6.5	1.5	1.1	0.81	3	130	470
PC11	Pigeon Creek	20.2	1,673	8.12	20.2	235	1.2	<1.0	1.4	0.75	<2.5	160	110
PC12	Pigeon Creek	22.1	1,149	8.17	18.7	222	2.0	<1.0	1.5	0.7	2.6	86	40
PC13	Pigeon Creek	23.6	1,640	8.11	18.7	233	0.82	<1.0	2.9	0.64	<2.5	54	100
PC14	Pigeon Creek	25.3	542	8.46	12.6	153	1.0	<1.0	1.4	0.39	<2.5	9	134
PC15	Pigeon Creek	24.5	6,309	8.01	10.3	124	0.82	2.7	1.3	0.55	<2.5	4	18
PC16	Pigeon Creek	23.2	675	8.05	21.1	252	0.11	1.3	1.2	0.5	<2.5	32	230
LC1	Locust Creek	20.7	418	7.75	14.4	160	0.82	<1.0	0.23	0.07	<2.5	6	190
LC2	Locust Creek	23	316	7.92	18.5	219	0.28	<1.0	< 0.05	0.08	<2.5	22	580
LP1	Little Pigeon Creek	21	346	7.67	11.7	130	0.37	1.4	0.09	0.18	<2.5	21	480
LP2	Little Pigeon Creek	21.5	369	7.92	15.5	178	0.51	<1.0	0.13	0.11	<2.5	15	390
BC1	Bluegrass Creek	21.7	1,488	8	13.8	164	0.22	1.4	0.11	0.45	<2.5	46	86
BC2	Bluegrass Creek	23.2	1,871	8.5	15.8	170	0.42	<1.0	0.33	0.44	<2.5	29	60
BC3	Bluegrass Creek	24	548	7.71	14.2	170	1.9	4.2	3.7	0.65	3.9	76	830
3C3 du	р						1.9	4.2	3.4	0.62	3.6	77	1000
WD1	Weinsheimer Ditch	20	334	7.6	13.4	146	0.62	1.7	1.4	0.25	4	250	8800
SD1	Stollberg Ditch	17.5	860	7.37	11.5	122	0.95	10	5.7	2.4	11	34	4500
UN1	Unnamed Tributary	18.5	1,070	7.58	14	152	0.36	8.4	0.05	0.11	<2.5	36	3000
SC1	Squaw Creek	17.9	3,295	8.08	23	286	4.9	<1.0	0.11	0.47	<2.5	37	79
BG1	Big Creek	22.2	2,304	8.1	18.7	232	1.1	1.4	0.43	0.03	<2.5	48	50
BG2	Big Creek	22.2	2,450	7.99	18.7	234	0.21	1.1	0.16	0.03	<2.5	7	16
SF1	Smith Fork	22.4	1,672	8.04	17	219	0.16	<1.0	0.14	0.28	<2.5	22	40
SF2	Smith Fork	22.3	1,693	8.46	24	305	0.78	<1.0	< 0.05	0.04	<2.5	3	9
SF3	Smith Fork	22.5	1,703	8.34	19	232	0.33	1.4	0.12	0.04	<2.5	3	10
3F3 du	ol						0.66	1.4	0.13	0.04	<2.5	4	16
WF1	West Fork	20.5	572	7.68	15	172	0.46	2.8	8	0.71	3.9	110	7500
WF2	West Fork	24	636	7.89	15.6	188	2.7	<1.0	8.9	0.23	2.5	70	810
WF3	West Fork	24	638	8.3	19	230	0.58	<1.0	9.3	0.1	<2.5	21	310
HC1	Hurricane Creek	25	633	8.02	17.3	212	1.0	2.1	4.9	2.5	3.9	12	2300
SA1	Sand Creek	27.1	507	8.56	13.2	193	4.3	<1.0	0.66	0.43	<2.5	9	41

#### Diagnostic Study of Pigeon Creek Watershed

Harza Engineering, Inc.

May 2000 Data Sheets:

## Qualitative Habitat Evaluation Index

### Rapid Bioassessment Protocol II for Macroinvertebrates

Flow measurements, on-site tests, physical description

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e V-4-8.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of (ish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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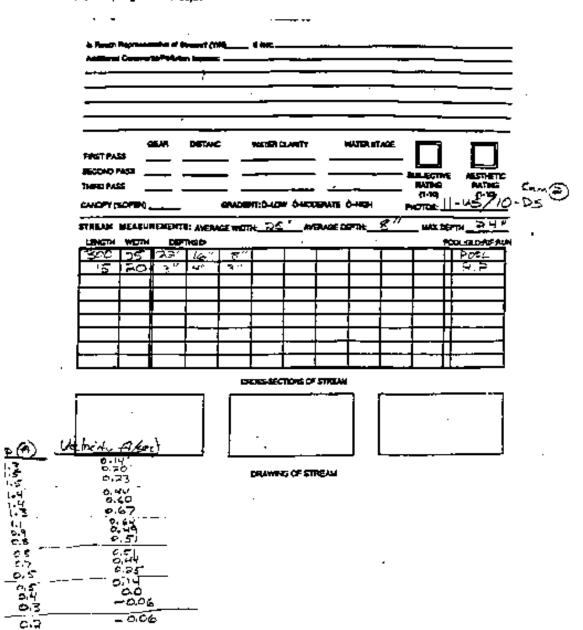
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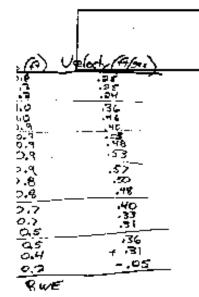
Figure V-4-5. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and edjacent area.



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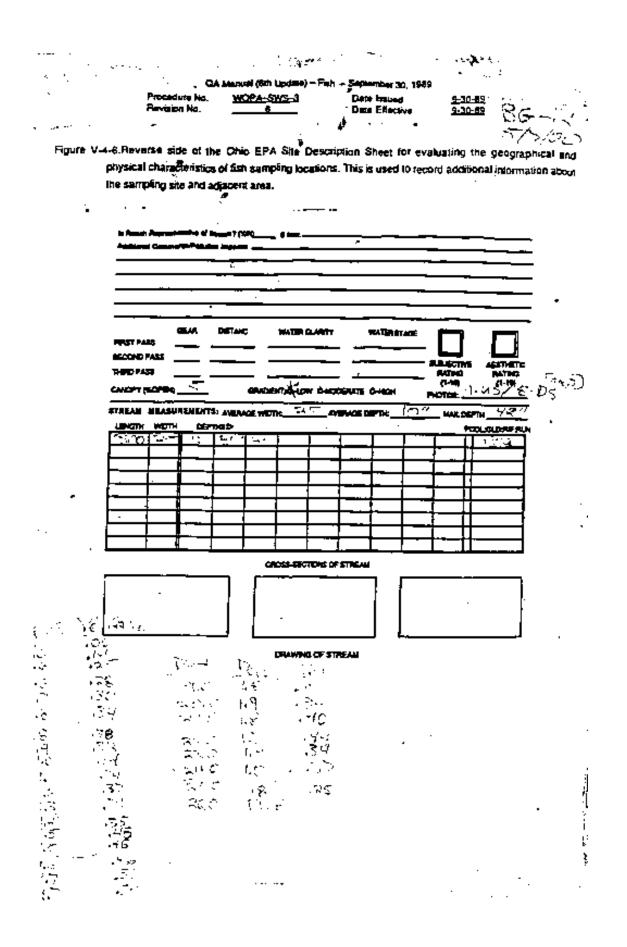
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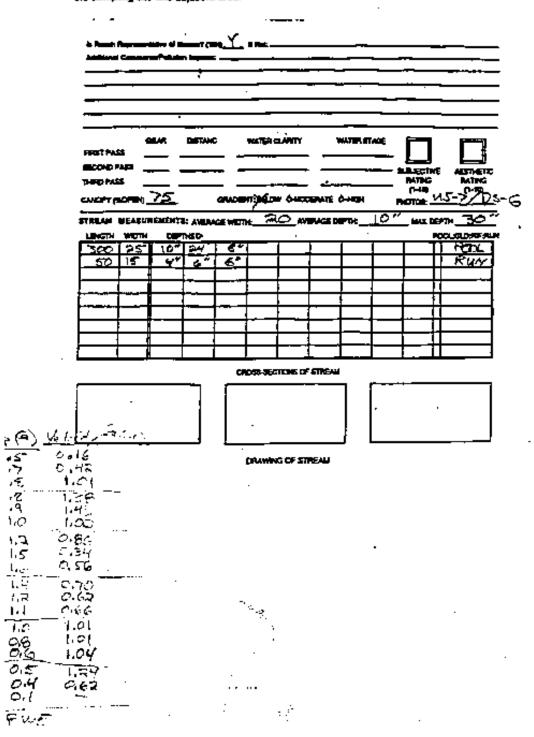
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Ire V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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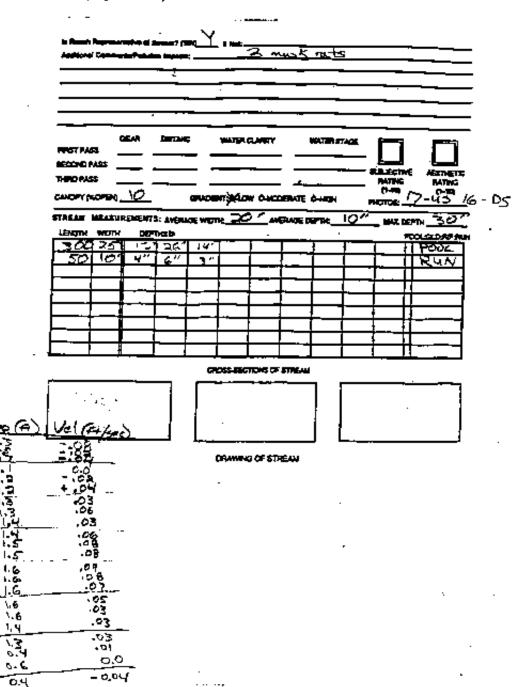
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ure V-4-5.Reverse side of the Ohio EPA Ste Description Sheet for evaluating the geographical and physical characteristics of 55h sampling tocations. This is used to record additional information about the sampling site and adjacent area.

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Figure V-4-5. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling sile and adjacent area.

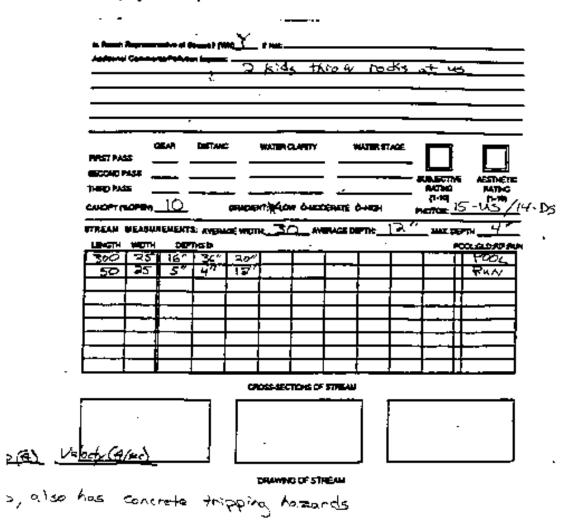


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Figure V-4-5.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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jure V-4-6.Reverse side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish samping locations. This is used to record additional information about the sampling site and adjacent area.

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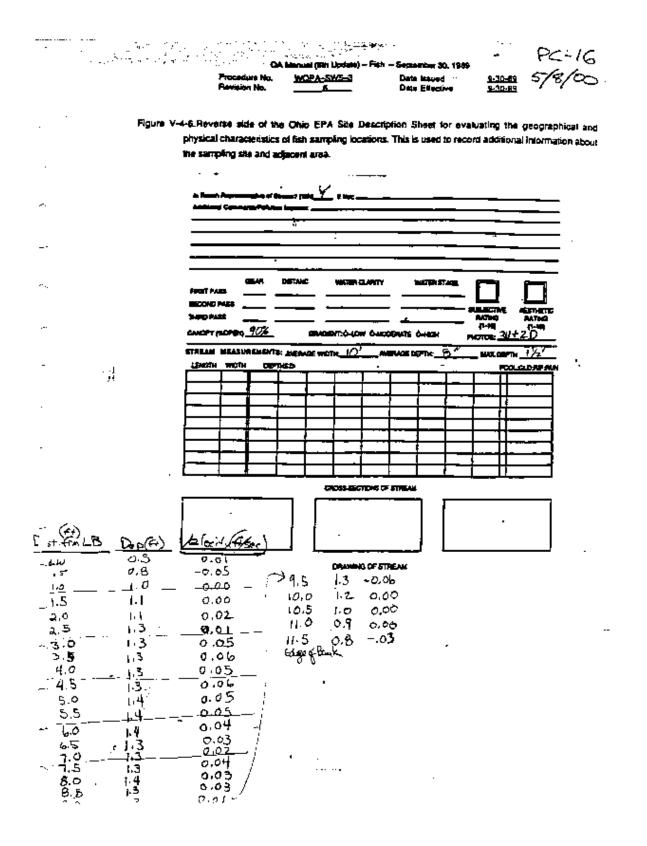
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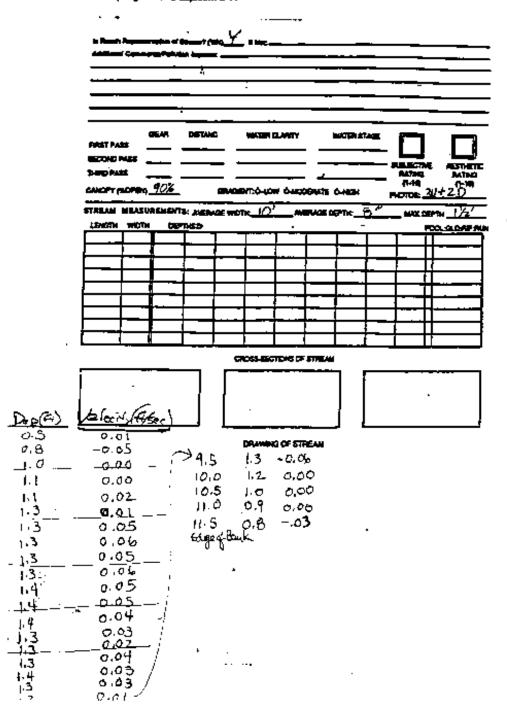
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Figure V-4-5. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of sish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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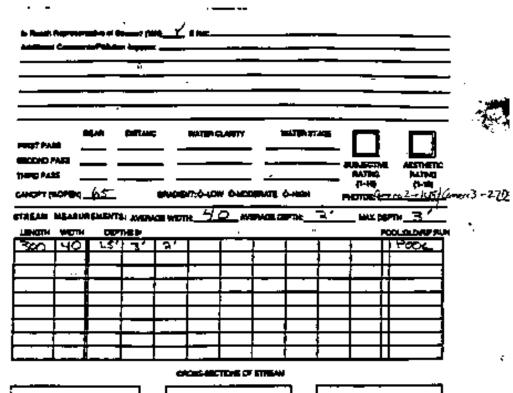
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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the peographical and physical characteristics of tiph sampling locations. This is used to record additional information about the sampling site and adjacent area.





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Figure V-4-6.Reverse side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of figh sampling locations. This is used to record additional information about the sampling site and adjacent area.

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Figure V-4-6. Reverse side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of 5th camping locations. This is used to record additional information about the sampling site and adjacent area.

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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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gure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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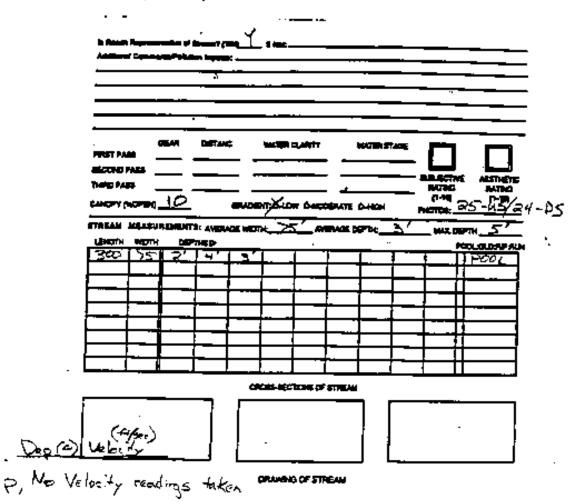
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Figure V-4-5.Reverse side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and edjacent area.



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Figure V-4-6.Reverse side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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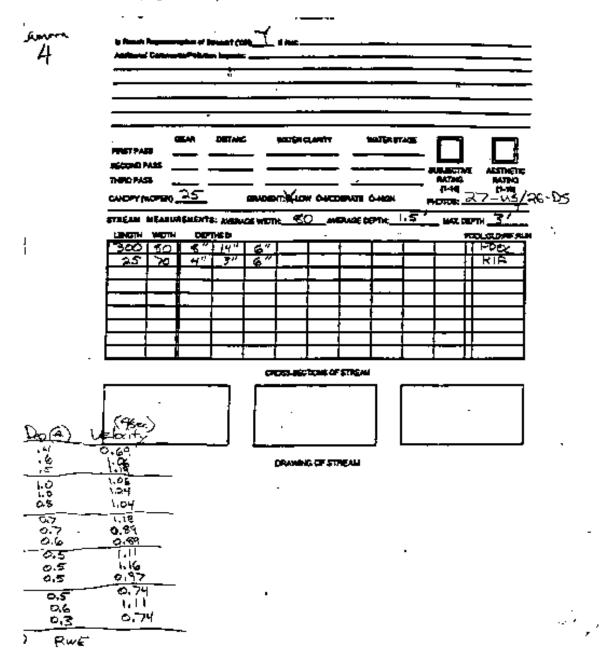
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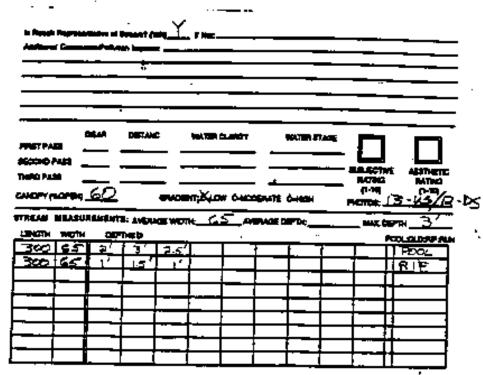
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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling the and adjacent area.



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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of Sah sampling locations. This is used to record additional information about the camping site and adjacent area.

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Figure V-4-5.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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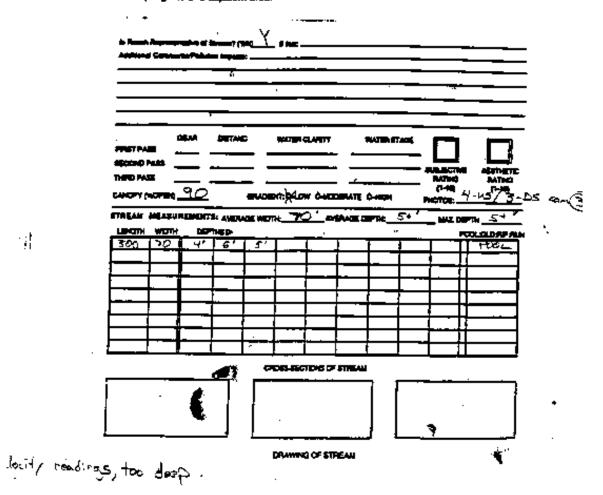
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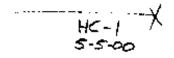
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Figure V-4-5. Reverse side at the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of Sch sampling locations. This is used to record additional information about the sampling site and adjacent eres.



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Do % + 212% pH = 8.02 Cord = 633 juntos

WF-3 5/5/00 Rapid Bioassessment Protocol # **Biosurvey Freid Data Sheet** RELATIVE ABUNGANCE OF AQUATIC BIOTA Perspirate  $\odot$ 2 2 2 \$2mgs φ Filementous Algae ń 4 Мастоілнетского Ż Hatrophytes ౨ figh. 2 - Abteni/Not Observed La Rere 2 = Common 2 - Abundant 4 - Cominent MACAQUENTHOS QUALITATIVE SAMPLE LIST Lui Panalas, Proper angoonsels - HT HT GT 111/83 ITEODEDA - HAT HATT N 17 4m 4m Acolor An-13 OL OD - WINT MIN 4 Ansomer Ston + -11 GANTOR LUS - LATAT 111/14 TUM 11 6 Cohroport م في أحد le' 10 2 Sympton GL protono-- HT / C Влумана Dipter Block 099 crayfish -Brachiand - Un much muthaning  $(\nu$ **Flecoalizm** Editor and the second Trenercera I Çança RIFFLE SAMPLE FUNCTIONAL FEEDING GROUPS Process of all advacant Representing Groups 54 mpwrę Plineting Collectors CROM SAMPLE FUNCTIONAL FEEDING CAUCAS INDICATE No. of Interdents Representing Gro Saredoors Total Org. in Sample 50 Doderveliens

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Uniter \*mp: 24°C DO: 19 mg/L DOB: = 230% Cond: 638 mm/cs PH: 8.3

WF-2 X

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When temp = 24°C DO = 15:6 mg/L 9600 = 188% PH = 7.89 Cond = 636 pmhos

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	, Pitsoolara	
Edhameropiary		Brachie - MILMINI (13) Brachie - MILMI MILMI MILMINI Kernbomaidae - Mi 33
		Kernebpognidae - 111 3!
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SF-3X S/2/20 and Deplicate

	Rapid Bioassessment	Protocal II
	Biosurvey Field Cara	Sheet
RELATIVE ABUNDANCE OF 40		
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	27990HER CORNELTON BAC -	<u></u>
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	Pittoblers	Kenstoparidae - 1705
Epnemeropleracian de - HI	UN (2)	- Eloos rea -/ VII)
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Other		·
RIFFLE SAMPLE FUNCTIONAL FEEDING GROUPS	il Materia Ara er ind	Yours Assessment Crevel
Series		
POM SAMPLE FUNCTIONAL FE	Filtering Ca Dinal CAOUPS    Price of a line of	line: grs
Silvescens 22	Total Org. ip	
Observations		Sample 72

DO = 19 mg/L 900 = 2528 Cond : 1703 patos PH = 8.34

	5F-7 5/7/00
	Rapid Sioassessment Protocol II
	Biosurvey Field Data Sheet
RELATIVE ABUNDANCE OF A	~
Filementous Algae d	
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6 - Absentinot Observed	Shad
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RIFFLE SAMPLE FUNCTIONAL FEEDING GROUPS	instate to an editional Economic Group
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Breaking - Jost Mr. Artin L. M.	<u>//</u>		<u>1</u>	
<u></u>	Pattoplare		Dipter Strate and Strate	们标情。
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Í	Raoid Bioassessment Protocol II
ļ	Biosurvey Field Data Sheet
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	Collegeners DASCH- HILLING)
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200 - 2342 Cond = 2,452 Junkes pH - 7,99

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	Rapid Bioassessment Protocol II	
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200 · 232% pH - 2.10

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WITLE SAMPLE		
AUNCTIONAL FREDRIG GADLINE	findents ing, at just margin it	
CPON EASING FUNCTIONAL FEED		
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Ober my liens	Total Org. in Sample	50
		1
Mp = 17.9 C		
= 123 mg/K		
) : 286%		

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MACROVENTHOS QUALITATIVE		
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Gastropoda (++5+1 //.V		
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Ephemerophere		Bladned - 1 iv
	Trichoptera	
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Water tomp = 18.5\* DO = 14.0 mg/L DOS = 1528 PH = 7.58 Cond = (070 pm hos

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FUNCTIONAL FEEDING CADUPS		
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Observations	l Total Drg. in Sama	50
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Cond = 860 unhas		••
RH + 7.3>		•
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5/4/00 Rapid Bioassessmeet Protocol II Brasurvey Field Date Sheet ۰.\_ RELATIVE ABUNDANCE OF ACAMTIC BIOTA Periphynan Fillementous Arges d Machophynes D נ כ נ 2 2 2 Sumes Macroinverteerices Fian 0 0 0 2 3 4 9 - Abasic/Not Observed i Aan 2 • Common 3 - Abundani 4 - Dominiant WACHOBENTHOS DUALITATIVE SAMPLE LIST List Families Presentingicals Advendance Corgoananta Think 1 (1) + Kannen - Ottach (1) (13 Decore An-Adalera Gastropoga Coleopiera n t – I Tha - 1 24 Report a . - T. v <u>(ho-</u>2441) Zygoniem ð Saular Bivatera Diplera Pletapserp Ennemerantera Changle' - () [ r. . . Tochamica v DESCON- MEAN MELT (17 (**2**/ -D-ner RIZELS SAMPLE FUNCTIONAL FEEDING GROUPS Industry ing at industry Representing Groups Sampers Fillence Collectors ഔ CPOM SAMPLE FUNCTIONAL FEEDING GROUPS INTERNAL PLANMARK STRATING GROUP S.oregaena Total Org. in Sample Observations

WD-1

Worter temp = 20°C DO = 13.4 mg/C %DO = 146% Cond = 334 mmhos pH = 7.60

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		<b>Ģ</b>	iðsurvey Fi	ield Data Sheel						
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Cirgochanta										
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Water temp = 24 °C DO = 14.2 % DO = 170% PH = 7.71 Cond = 548 junhos

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	57	6/
	Rapid Bioassessment Protocol II	
	Biosurvey Field Data Sheet	
RELATIVE ROUNDANCE OF ADD		
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	- Short 2 - Common 3 - Abundant 4 - Oominant	
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MACROBENTHOS QUALITATIVE S	MARLE LIST	2÷,
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	- Andrews - MINIMITAN MILAN	un
Gallmood LHS-11.5		
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conides - Milling (	Thethopsen	
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RIFFLE SAMPLE FUNCTIONAL FLEDWIG GROUPS		
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	NC GROUPS (wardsteine an of instruments Representing Crowp)	
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DO = 15.5 mg/L %DO = 178% pH : 7.92 Cond : 369, unios

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	Rapid Bioassessment P	fotocot II
	Biosurvey Flets Deta 5.	heel
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Eanemetoolare Bast 2 - ) Eanemetoolare Bast 2 - ) WWWENTIN Olaer RIFJLE SAMPLE JUNCTIONAL FEEDUKS CARDUN SERIOPO	(2)     Zstophere Calified -    (2 POEnergrand - ) (1)   Piecopiere ; ///////// 3) / The hoppere PS   Institut Ay of Jean   Piecopiere ; //////	   COMMONSTER       DIDIARS Br. Chr.d - Lift[Jif] /                                 
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DO • 11:7mg/2 % DO = 130% DH • 7.67 Cond • 346 jumbes

		26-2 5/6/00
	Repid Bioassessm	Protocol //
	Biosurvey Fis/∉	ata Sheet
RELATIVE ABUNDANCE	OF AQUATIC BIOTA	
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6 - Absenutial Observed	1-Ram 2-Com	mon Ş Abundanı 4 Dominant
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		Instipate - HT. HT. HT. HT. K.
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	<u> </u>	BinChind - MIHIMIT HITHIN
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Canidae - LHT 11	1 in Inchaeters	
QIAP.		
RIFFLE SANTLE		
UNCTIONAL FEEDING GRO	0L/PS (PM-Gens //w -	Individuals Representing Groups
Seralbard	[ <i>Est</i> ero	\$ Callesion
CPOH SAMPLE PUNCTION	AL FEEDING GROUPS (Indican Ne of	Mindusis Attracting Group
indeen 47		1). In Sample 74
Descretions		
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Unter tamp= 25 -DO = 18.5 mg/L %DO = 219% Cond = 316 pm hos pH = 7.92

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ueter temp = 20.6 °C DO = 14.3 mg/L %DO = 168% Cond = 1,663 polos pH = 7.89

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Latter temp = 2.2.5 DO = 18.70 7600 = 230 Cond = 1/724 PH + 7.70

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OA Manual (5th Update) - Fight - September 30, 1967 Procedure No. WOPA-SWS-3 Dete issued 9-30-69 Revision No. ¢. Date Effective 9-30-99 \_\_\_\_

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5/2/00

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical

charactenstics of fish sampling locations. This is used to record information for the calculation of the Outamative Habitat Evaluation Index (OHEB).

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Procedure No.	<u>WCPA-SWS-1</u>	Data Issued	<u>8-30-80</u>
Revision No.	f	Data Elfaçove	9-10-80

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calcutation of the Outlifative Rabitat Evaluation Index (OHEI).

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GA Manual (6th Update) - Zish - September 30, 1985 WOPA-SWS-1 Procedure No. 9-<u>00-99</u> 9-30-99 Date (ssred Revision No. £ Date Stiegwei

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Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Outsitative Habitat Evaluation Index (QHER).

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"Awar Aspit Lacong Open <u>Dia Lai Na Wigita</u> ( R. (Per Burb) C J'-Wijita Stoc (4)	EPESYONE L R (Main C C ADRS	RUNDER - <u>RUNCH Z.</u> Presoninani Per Bai F. Syam <sup>e</sup> F.	AND (2013) TTV rsk) L R (Am Tank) CC/UR344 (All	BA NDUSTRIALICI D	NY FROSION CHONE CALITTLE (S	
- 'Awar Asp't Lasong Down <u>Dia Laine With Tai</u> 1, R (Per Burg) 2, J'-WID6, \$300 (4) 7, J'-WID6, \$300 (4)	EPOSYNY L R (More CO-FORES D C) <b>XRE</b> (2454)	RUNDER - RUDOC Z. Presoninani Par Ba St. Smamp P. Pasturé/ Roword	AN <u>CUSETY</u> rk) L R (Arr Tank) COURSAN OAN P(0) COSS-RUS CR C	BA NGUSTRIALICI O NGUSTRIALICI O	<u>NY FROSION</u> D-MONE CALUTTLE (S <b>B-</b> 400269475,2)	- <b></b> ,
*Aver Right Locaring Driving <u>Dis Locaring With The</u> ( R (Per Barbi) C D'-WICE Son (4) C D'-WICE Son (4) C D'-MARROW Solom (5)	2003/00/00 L R (24000 00:40855 20:5 21: 00:4550 21: 00:4550	RUNDER - RUDOC Z. Predom Inani Par Bai F. Sylamf F. Pasturé: Fowgeo 7476/484 Felin (	410 (2013) (772) 625) L. R. (Am Tank) 625 URBAN (64) 7(0) G13:ShRUB GR ( 1) - 013-654(\$RM 7)	BA NOUSTRIMUICI O NO RELO(0) D NUAS(0) C	NY FROSION CHONE CALITTLE (S	- <b></b> ,
- Rever Rept (Jacomy Down) <u>012 (Jacomy Wey 74)</u> (R (Per Busta) C (J <sup>*</sup> -WO) (Jacomy) C (J	2003/00/00 L R (24000 00:40855 20:5 21: 00:4550 21: 00:4550	RUNDER - RUDOC Z. Predom Inani Par Bai F. Sylamf F. Pasturé: Fowgeo 7476/484 Felin (	AN <u>CUSETY</u> rk) L R (Arr Tank) COURSAN OAN P(0) COSS-RUS CR C	BA NOUSTRIMUICI O NO RELO(0) D NUAS(0) C	<u>NY FROSION</u> D-NONE CALUTTLE (5 <b>A</b> 400066475,72	- <b></b> ,
Rever Rept Learning Covers or a Longer With The C D'-WIDE Abor (4) D D'-WIDE Abor (4) D D'-RARRAY S Learning WIEL WEAR NACHER (4) D D'-NORE[0]	2003/00/00 L R (24000 00:40855 20:5 21: 00:4550 21: 00:4550	RUNDER - RUDOC Z. Predom Inani Par Bai F. Sylamf F. Pasturé: Fowgeo 7476/484 Felin (	410 (2013) (772) 625) L. R. (Am Tank) 625 URBAN (64) 7(0) G13:ShRUB GR ( 1) - 013-654(\$RM 7)	BA NOUSTRIMUICI O NO RELO(0) D NUAS(0) C	<u>NY FROSION</u> D-NONE CALUTTLE (5 <b>A</b> 400066475,72	- <b></b> ,
• Rever Rept Learning Covers <u>ота Lатила WT7711</u> • R (Per Bana) • D'14406254475 (DS D'14476454475 (DS D'14476476475) • D'144764761 • D'1446475.	EPOSYNY L R (Alexa Cârfones Câ	RUNDER - RUDOC Z. Predom Inani Par Bai F. Sylamf F. Pasturé: Fowgeo 7476/484 Felin (	410 (2013) (772) 625) L. R. (Am Tank) 625 URBAN (64) 7(0) G13:ShRUB GR ( 1) - 013-654(\$RM 7)	BA NOUSTRIMUICI O NO RELO(0) D NUAS(0) C	<u>ANY EPOSIDA</u> CHADNE CALITTUS (3 CHECOERATE.Z) CHECAVY OR SEVERE!	- <b></b> ,
- Rever Rept Learning Covery <u> </u>	5705/100 1 R (2005) 0 D (2005) 1 R (2005) 0 D (2005) 1 D (200	RUNDES - RUTCO Z. Presom hani Par Ba Tu Syland PJ 2437URE/ ROWORD WZARK NEW RELD ( D PASTURE [1]	<u>ин 200 тт</u> course (Aer Bank) course (Aer Bank) classification classification classification classification classification	BA NOUSTRULIO D LO RELO(2) D NUADE(2) D STRUCTION (0)	AN FROMO DADNE CALITUS (3 AUCOCALITUS (3 DAEAVY OR SEVERE) 	- <b></b> ,
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Rever Rept Learning Cover;           012_011(A) WT7_11           1         R (Rev Bund)           2         21-WT26.4300 [4]           2         20-WT26.4300 [4] </td <td></td> <td>B)(KORE         B) TOCK Z.           Preson han Pw Ba           T. SMANF []           AASTURE/ ROWCEG          PAATURE/ ROWCEG          </td> <td>414 (2015) ТТУ           COURSAN (24)           COURSAN (24)           COURSAN (24)           R(0) COSHIELD           COURSAN (24)           R(0) COSHIELD           COURSAN (24)           COMMINGCOM           COMMINGCOM</td> <td></td> <td></td> <td>, "" </td>		B)(KORE         B) TOCK Z.           Preson han Pw Ba           T. SMANF []           AASTURE/ ROWCEG          PAATURE/ ROWCEG	414 (2015) ТТУ           COURSAN (24)           COURSAN (24)           COURSAN (24)           R(0) COSHIELD           COURSAN (24)           R(0) COSHIELD           COURSAN (24)           COMMINGCOM			, "" 
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Précedure No.	<u>WOP4-SW5-3</u>	Dale issued	<u>9-30-44</u>
Revision No.		Dale Effective	9-30-89

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and obysical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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AJ SIPARIAN ZONG A "Rever Such Locato <u>Rever Such Locato</u> <u>I de River Rever</u> <u>C 3 (Per Rever</u> ) <u>C 3 (Per Rever</u> )	Сонтанал <u>52058</u> 4. Соло 1957-71 <b>А.С.</b> 1957-71 <b>А.С.</b> 1957-73 1957-75 1957-	<u>onfiliacy</u> - <u>E-con P</u> i Iosi Pretominant Par Ib 1913 - Swane Di 1917 - Pasturet Rowork Escurarki, New Relo	400 Color ITM antej 11 A (Per Buni 12 DU 732411 1 CP(0] 12 D SHRUB 0 [1] 12 C-2014537	د 10 توليدي بيوني 10 توليدي بيوني 10 توليدي بيوني 10 توليدي (	<u>анх 5805034</u> Фуске облати	(P)
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ÇA M	- (anval jõth Updare)	Fish ~ September 30, 1989	
Procedure No. Revision No.	<u>WOPA-5WS-3</u>	Date Effective	<u>9-30-89</u> 9-30-89

Figure V=-5. Front side of the Chio EPA Ske Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record information for the calcutation of the Quelitative Habitat Evaluation Index (OHE).

Chic 294 Sils Cottols Stan West for K of Y Lang West for K	98 हमेरेका - भिडम 	
1] SUBSTRATE (Check dist / Two Substra	In TYPE SOXES: Cherry all types are such:	
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	CHARLE TALLS [1] DHAR	OPAN (3) Q - SILT NORMAL (B) C - SILT FREE (1)
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COMMENTS .		
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r .	·	_ 0 - HEARLY ABSENT < \$%[1]
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an baite Bibli Bitati anna daana manaana	·	CIDARIAN I
A RIPARIAN ZONE AND BARK ERCSION -	(erresk GHE boz per bunk or chuck 2 and 4	(ERAGE PHILLINK) RIPARIAN:
"Ever Right Latence Councilean"		
"Firet Right Lating Co-navean" <u>Rife Frien WIDTH</u> <u>FRORTON</u>	BUNDAR - <u>Block Allen Cruster</u>	(ERAGE per bank) RIPARIAN: 🔀
ידאייר אקדיג בסטוק לסארטעשיי <u>איז איז איז איז איז איז איז איז איז איז </u>	Bijngodž - <u>Bioloģi bu na granov</u> L Presoninani Per Bankj - 1, 8. (Per Bank)	GANK CROSICH
- Чбинг барта Lacturg Соннскизин" <u>В газатнан импоти</u> С. R. (Alex Sank) С. с (Alex Sank) С. с (Mod Sank) С. с (Mod Sank) С. с (Mod Sank)	Bijngodž - <u>Bioloģi bu na granov</u> L Presoninani Per Bankj - 1, 8. (Per Bank)	
"Form Right Lotting Councilian"         ECONT           8:28 Friday (MTDTH)         FCONT           0:38 Friday (MTDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           1:37 - WTDSH(WIDTH)         FCONT           1:37 - WTDSH(WIDTH)         FCONT           1:37 - WTDSH(WIDTH)         FCONT	B <u>ungsés - Biggóg ág inversionn</u> L <sup>a</sup> rcssoninan Per Banki (J. 8. (Arr Banki) ST. Swaath (S) – Ciggadar (S) 2425 ukér Agwyátotty: Ciggadaus gá (	BANK SECTION NOUSTERAUDI DE CLACHE DE UTILE (2)
"Form Right Lotting Councilian"         ECONT           8:28 Friday (MTDTH)         FCONT           0:38 Friday (MTDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           0:37 - WTDSH(WIDTH)         FCONT           1:37 - WTDSH(WIDTH)         FCONT           1:37 - WTDSH(WIDTH)         FCONT           1:37 - WTDSH(WIDTH)         FCONT	Ryngeld - <u>Alocio Alune granter</u> L'Arcominant Per Bankj - L'Al (Am Bankj 57. Sevanë (Sj	<u>BANK SECTION</u> BANK <u>SECTION</u> NOUSTEVALS() - CLAONE DE UTTLE (2) NO RELEYZ - <b>PERE</b> (CDERATE(2)
"Form Right Lotting Councilian"         ECOLOGICAL           8:22 Friday MODIFI         ECOLOGICAL           0:32 Friday MODIFI         ECOLOGICAL           0:37 MIDES Friday MODIFI         COLOCIES           0:37 MIDES Friday MODIFI         COLOCIES           0:37 MIDES Friday MODIFI         COLOCIES           0:31 MIDES Friday MODIFICAL         COLOCIES           0:32 MIDES Friday MODIFICAL         COLOCIES           0:32 MIDES Friday MODIFICAL         COLOCIES	B <u>UNDÉE</u> - <u>ROCO ALI WICKERAN</u> L <sup>a</sup> rcosahan Per Banki (J. 8 (AwiBanki) ST. SWARE OL AASTURE: ROWCADERS: COURSERV, 6 S. ANAXINEW RELD (I) – CO-CONSERV, 6	<u>вани сестон</u> <u>вани сестон</u> Noustriaujo — съконе се итт. 5 (2) No лешто " <b>Ратан</b> скататеца; тасец; — с физаку ор земелејн
Power Right Lotting Councilian* <u>8-23-8-444 W077-1</u> <u>5-20(8-54-44</u> U.R. (Aer dank)     L.R. (Aer dank)     Co-FCFEI     Co-W0265-W07(3)     CO-FCFEI     CO-W0267-W17(3)     CO-FCFEI     CO-FCFEI     VEFRY NARROW 1-3m [1] CO-FEINCE	B <u>UNDÉE</u> - <u>ROCO ALI WICKERAN</u> L <sup>a</sup> rcosahan Per Banki (J. 8 (AwiBanki) ST. SWARE OL AASTURE: ROWCADERS: COURSERV, 6 S. ANAXINEW RELD (I) – CO-CONSERV, 6	NOUSTRIAU(C) - DI CANDIE DRI UTTUE (C) NOUSTRIAU(C) - DI CANDIE DRI UTTUE (C) NO RELITICI - <b>DI CANDARTICA</b> 11406 (1) - DI CHASAVY OR SEVERE(1)
TEAM Right Looking Counciliant         COORTING           B. Darinan Witten         COORTING           B. Darinan Witten         COORTING           C. D. WOODERATE VOISSING         COORTING           D. WOODERATE VOISSING         COORTING           D. WOODERATE VOISSING         COORTING           D. WOODERATE VOISSING         COORTING           D. WOODERATE VOISSING         COORTING           D. WOODERATE VOISSING         COORTING           VOIDERATE VOIDERATE VOIDERATE         COORTING           VOIDERATE VOIDERATE         COORTING           VOIDERATE         COORTING           VOIDERATE         COORTING	B <u>UNDÉE</u> - <u>ROCO ALI WICKERAN</u> L <sup>a</sup> rcosahan Per Banki (J. 8 (AwiBanki) ST. SWARE OL AASTURE: ROWCADERS: COURSERV, 6 S. ANAXINEW RELD (I) – CO-CONSERV, 6	NOUSTRIAU(C) - DI CANDIE DRI UTTUE (C) NOUSTRIAU(C) - DI CANDIE DRI UTTUE (C) NO RELITICI - <b>DI CANDARTICA</b> 11406 (1) - DI CHASAVY OR SEVERE(1)
"Free Right Looking Co-incursion"           8 /23/21/44 (MTCT)         COORDINATION           0         R/24 (MTCT)         R/24 (MTCT)           0         R/24 (MTCT) <td>B<u>UNDÉE</u> - <u>ROCO ALI WICKERAN</u> L<sup>a</sup>rcosahan Per Banki (J. 8 (AwiBanki) ST. SWARE OL AASTURE: ROWCADERS: COURSERV, 6 S. ANAXINEW RELD (I) – CO-CONSERV, 6</td> <th></th>	B <u>UNDÉE</u> - <u>ROCO ALI WICKERAN</u> L <sup>a</sup> rcosahan Per Banki (J. 8 (AwiBanki) ST. SWARE OL AASTURE: ROWCADERS: COURSERV, 6 S. ANAXINEW RELD (I) – CO-CONSERV, 6	
"Free Right Loting Councilian"           8:22 Friday (MTDTH)         FOO(5100)           0:23 Friday (MTDTH)         FOO(5100)           0:25 Friday (MTDTH)         C. R. (All of 1           0:25 Friday (MTDTH)         C. D. (All of 1           0:25 Friday (MTDTH)         C. D. (All of 1           0:25 Friday (MTDTH)         C. C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1           0:25 Friday (MTDTH)         C. (All of 1	BUNDÉS - <u>BOOD SULLAV OVERAN</u> L'Aresoninan Por Banki (J. 8. (Aw Banki) S. Swaaf Ol – Olivasvi (S. 24350/Ker Agwichorks: Olivarius DA ( S. AASUNEW RELD (I) – DO-ONSERV, T 20 PASTURE (I) – OO-MININGTON	
"Form Right Loting Councilian"         EPO(2011)           8:22 Fridge MIDTH         EPO(2011)           0:37 MIDS Software         EPO(2011)	<u>Вукрай - Вород Арник слагат</u> Larcostinan Per Bank   1,8 (Arr Bank) 27. Swake Gi Dougash CR 24350A6r Agweddoffe: Coskinus CA ( 5. AASENEW RELD    DO-CONSERV. 7 20 PASTURE (1) OO-MININGCOM 	
"Form Right Looing Co-industan"         ESC Fride With The State	Bungdá - <u>Biorón Suliny Granter</u> L <sup>2</sup> resonanan Per Banki - 1 A (Aur Banki ST. Swalef Di COURSAN CA PASTURAR AGWÓRGIQI COSCHUS DA ( J.AANGNEW RELDINI - COSCHUSERN, 1 20 PASTURAS (1)	
Тринк Right Looning Co-илозиан"         С.О. При Сонсулант           8. (Заличи милота)         С.О. При Сонсулант           1. 8. (Заличи милота)         С. В. (Дер балк)         С. В. (Дер балк)           2. С. (ЧКС балк)         С. В. (Дер балк)         С. В. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (Цер балк)         С. (Дер балк)         С. (Дер балк)           2. С. (Дер балк)         С. (Дер балк)         С. (Дер балк)           2. С. (Дер балк)         С. (Дер балк)         С. (Дер балк)	Вукроба - <u>Вроба Арнан славита</u> I Presonalnani Per Baski - (-Я. (Анг Валь) - 51. Swalef Di - C. Dugaoni C. A. PASTURE: ACWORDER: C. S. S. AUS DA (- ). ANDONE REID (II) - DOLCONSERV. 1 ED PASTURE: (1) - OOLCONSERV. 1 ED PASTURE: (1) - OOLCONSERV. 1 	
"Бинк Right Looning Councilian"         COORDINANT         COORDINANT           8 (28 File March         COORDINANT         COORDINANT         COORDINANT           2 CT WY CoorDinant         COORDINANT         COORDINANT         C	Bijkopdži - <u>Bijkopdži - Bookiji - V Bijkop</u> L Presonijnani Per Bankiji - U Bijkovi del           L Presonijnani Per Bankiji - D Outgavi del           PABTUREF ROMOŽADENO OD OSALO           PABTUREF (1)           OO-ODOM           PISALE MOŽINANO           PISALE MOŽINA (2)           PISALE MOŽINA (2)           PISALE MOŽINA (2)	
Тринк Right Looning Co-илозиан"         С.О. При Сонсулант           8. (Заличи милота)         С.О. При Сонсулант           1. 8. (Заличи милота)         С. В. (Дер балк)         С. В. (Дер балк)           2. С. (ЧКС балк)         С. В. (Дер балк)         С. В. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (ЧКС балк)         С. (Дер балк)         С. (Дер балк)           2. С. (Цер балк)         С. (Дер балк)         С. (Дер балк)           2. С. (Дер балк)         С. (Дер балк)         С. (Дер балк)           2. С. (Дер балк)         С. (Дер балк)         С. (Дер балк)	Bijkopdži - <u>Bijkopdži - Bookiji - V Bijkop</u> L Presonijnani Per Bankiji - U Bijkovi del           L Presonijnani Per Bankiji - D Outgavi del           PABTUREF ROMOŽADENO OD OSALO           PABTUREF (1)           OO-ODOM           PISALE MOŽINANO           PISALE MOŽINA (2)           PISALE MOŽINA (2)           PISALE MOŽINA (2)	
"Бинк Right Looning Councilian"         COUNTING         <	Bijngdé - Biggó állan vizuzitan           Larcominani Per Banki - La (Am Banki - Presoninani Per Banki - La (Am Banki - Phatrukér Agwédozie: CD-S-RUS GA - Phatrukér Agwédozie: CD-S-RUS - Phatru	
TEAMY Right Looung Councerain'           8:0287444 WMTCH         CD0(20104)           8:0287444 WMTCH         CD0(20104)           C.C. (Are damk)         L.R. (Mag)           C.C. (Are damk)         L.R. (Mag)           C.C. (ARCSER 10 SSC())         CD0(20104)           C.C. (ARCSER 10 SSC())         CD1(20104)           D.S. (6)         [GARCS           C.C. (71)         CO0(20104)	Bijkopdži - <u>Bijkopdži - Bookiji - V Bijkop</u> L Presonijnani Per Bankiji - U Bijkovi del           L Presonijnani Per Bankiji - D Outgavi del           PABTUREF ROMOŽADENO OD OSALO           PABTUREF (1)           OO-ODOM           PISALE MOŽINANO           PISALE MOŽINA (2)           PISALE MOŽINA (2)           PISALE MOŽINA (2)	
"Form Right Looking Co-induction"           B. 22 Jinker Wantschild         C 20 (20 cm)           B. 22 Jinker Wantschild         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           V 20 (WT0 25 NGM (4)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 MGM (2)         C 20 (20 cm)           V 20 (WT0 27 MGM (2)         C 20 (20 cm)           V 20 (WT0 1)         C 20 (20 cm)	Bijngdé - Biggó állan vizuzitan           Larcominani Per Banki - La (Am Banki - Presoninani Per Banki - La (Am Banki - Phatrukér Agwédozie: CD-S-RUS GA - Phatrukér Agwédozie: CD-S-RUS - Phatru	
"Form Right Looking Co-induction"           B. 22 Jinker Wantschild         C 20 (20 cm)           B. 22 Jinker Wantschild         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           C 21 (WT0 25 NGM (4)         C 20 (20 cm)           V 20 (WT0 25 NGM (4)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 NLARACOW 1-0m (1)         C 20 (20 cm)           V 20 (WT0 27 MGM (2)         C 20 (20 cm)           V 20 (WT0 27 MGM (2)         C 20 (20 cm)           V 20 (WT0 1)         C 20 (20 cm)	Вулодей - <u>Вороди Виличиски</u> L Presonalinani Per Banki - (-) (-) (-) (-) (-) (-) (-) (-) (-) (	ВАНИК СВСТТОН           ВАНИК СВСТТОН           NOUSTPLAUD: D. CLAONE DR 1017.5 (2)           NOUSTPLAUD: D. CLAONE DR 1017.5 (2)           NOUSTPLAUD: D. CLAONE DR 1017.5 (2)           STRUCTION (3)           POOL: 4.1           POOL: 4.1           D. INTERSTITUUE (1)           D. INTERSTITUE (1)           D. INTERSTITUE (2)           RIFFLE: 1
TEAM Right Looking Councertain         ESCRIPTION	Bijnovići - Bijnovići Sulav ovaratne           Li Predominani Per Banki - Li R (Avr Banki - C.D.URBANI CR.           Sh. Shakef Di - C.D.URBANI CR.           PASTURE/ ACMERATE: C.D.URBANI CR.           AAAUREW RELD [1] - C.D.URBENT CR.           C.D.ARK, NEW RELD [1] - C.D.CONSERV. T.           Sh.ARK, S.W.C.T.           Sh.ARK, S.W.C.T.           Sh.ARK, S.W.C.T.           Sh.ARK, S.W.C.T.           Sh.ARK, S.W.C.S.           Sh.ARK, S.W.S.S. S.M.R.T.           Sh.ARK, S.W.S.S.S.S.S.T.	
"Form Right Looking Co-induction"           B. 22.87-MM WITTEL         CODECTION           B. 22.87-MM WITTEL         CODECTION           C. 27.470 Gaster (A)         C. C. Action (A)           C. 27.470 (A)         C. C. Action (A)           C. 27.470 (A)         C. C. Action (A)           C. 27.470 (A)         C. C. Action (A)           C. 27.470 (A)         C. C. Action (A)           C. 27.470 (A)         C. C. Action (A)           C. 4.470 (A)         C. C. Action (A)           C. 4.470 (A)         C. C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)           C. 4.470 (A)         C. Action (A)	Bijnovići - Bijnovići Sulavi ovatatov           L Predominani Per Banki - L R (Aw Banki - C. Quiqavi CR           ST. Swaalf (S)         C. Quiqavi CR           AASTUAST ACWORODO:         C. Duiqavi CR           AASTUAST ACWORODO:         C. Duiqavi CR           AASTUAST ACWORODO:         C. Duiqavi CR           ST. Swaalf (S)         C. Duiqavi CR           AASTUAST ACMORODO:         C. Duiqavi CR           ST. Swaalf (S)         C. Swaalf (S)           St. S. Swaalf (S)         C. SLOW (S)           B. St. Setting (S)         St. St. St. St. St. St. St. St. St. St.	
"Биек Right Looning Co-industan"           8 (Заличи интера         СОСАТИАН           8 (Заличи интера         СОСАТИАН           2 (С. 4400000000000000000000000000000000000	Bijngdé - Biggón állan vignator           Lifeanninani Per Banki - Cil (Arribuna)           ST. Swaaf (S)         Cillydavi (Arribuna)           PABTURAR AGWÓRÓR(S)         Cillydavi (Arribuna)           PABTURAR AGWÓRÓR(S)         Cillydavi (Arribuna)           PABTURAR AGWÓRÓR(S)         Cillydavi (Arribuna)           PABTURAR AGWÓRÓR(S)         Cillydavi (Arribuna)           Cillydavi (Arribuna)         Cillydavi (Arribuna)	
*Form Right Looing Co-mousin'           8:72:File WithTh         FORTONIC           8:72:File WithTh         FORTONIC           0:10:MC03FATE V0:50:0;         CO-PRESC           0:10:MC03FATE         Standard W I:0;           0:10:MC03FATE         Standard W I:0;           0:10:MC04FE;         Standard W I:0;           0:10:MC04FE;         CO-PRESC           0:10:MC04FE;         CO-PRE	Bijnovići - Bijnovići Sulavi ovatatov           L Predominani Per Banki - L R (Aw Banki - C. Quiqavi CR           ST. Swaalf (S)         C. Quiqavi CR           AASTUAST ACWORODO:         C. Quiqavi CR           ST. Swaalf (S)         C. Quiqavi CR           AASTUAST ACWORODO:         C. CONSERV. T           ST. Swaalf (S)         Q. MININGTON           MCC. OSTM         A. Swaalf (S)           MCC. Swaalf (S)	
TEAM Right Looking Co-motivant           B. 22 APRAY MUTCH         C 20 (2014)           B. 22 APRAY MUTCH         C 20 (2014)           C. 27 (400 Section (4))         C C (400 Section (4))           C. 27 (400 Section (4))         C C (400 Section (4))           C. 27 (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))	Bijngdé - Biggó állan vignator           L Presoninani Per Banki - LA (Am Banki - Sinaka Biji - Coupani da da da da da da da da da da da da da	BANK SECTION           BANK SECTION           NOUSTPLAUEL O DAMAE OF UTTLE (2)           CONSTRUCTOR SEVERATE(2)           CONSTRUCTOR (2)           POOL:
*Form Right Looing Co-mousin'           8:72:File WithTh         FORTONIC           8:72:File WithTh         FORTONIC           0:10:MC03FATE V0:50:0;         CO-PRESC           0:10:MC03FATE         Standard W I:0;           0:10:MC03FATE         Standard W I:0;           0:10:MC04FE;         Standard W I:0;           0:10:MC04FE;         CO-PRESC           0:10:MC04FE;         CO-PRE	Bijngdé - Biggó állan vignator           L Presoninani Per Banki - LA (Am Banki - Sinaka Biji - Coupani da da da da da da da da da da da da da	
TEAMY Right Looining Co-Industant           B (22) Flat (WITTH)         COORDINANT           B (22) Flat (WITTH)         COORDINANT           C (22) Flat (WITTH) </td <td>Bijngdé - Biggó állan vignator           L Presoninani Per Banki - LA (Am Banki - Sinaka Biji - Coupani da da da da da da da da da da da da da</td> <th></th>	Bijngdé - Biggó állan vignator           L Presoninani Per Banki - LA (Am Banki - Sinaka Biji - Coupani da da da da da da da da da da da da da	
TEAM Right Looking Co-motivant           B. 22 APRAY MUTCH         C 20 (2014)           B. 22 APRAY MUTCH         C 20 (2014)           C. 27 (400 Section (4))         C C (400 Section (4))           C. 27 (400 Section (4))         C C (400 Section (4))           C. 27 (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C C (400 Section (4))           C C (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           D (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))           C (400 Section (4))         C (400 Section (4))	Bijngdé - Biggó állan vignator           L Presoninani Per Banki - LA (Am Banki - Sinaka Biji - Coupani da da da da da da da da da da da da da	BANK SECTION           BANK SECTION           NOUSTPLAUEL O DAMAE OF UTTLE (2)           CONSTRUCTOR SEVERATE(2)           CONSTRUCTOR (2)           POOL:

E34 +523

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record information for the calculation of the Quartalize.Hadda: Evaluation Index (OHEI).

Ohio EPA Sile Description Sheet - Fich OHEI SCORE: [ - ESE/CWS Das 55-1 أمنعها I SUBSTRATE [Check ONLITING Subarms TYPE FOXES; Check of these present; SUBSTRATE QUALTY SUBSTRATE SCORE: 12 ACC. REALS POOL ANTRA T\*25 0.048.048./30485/10] C D-BCULDER (9) CC-C388L3 78 Satur C Saberdary (Satt Or) O CHAROPAN (4) ေလေးကားသည C-SANDSTONE [0] DOM:CAR CO-ARTIFIC (C) O SHALE [1] TOTAL NUMBER OF SUBSTRATE TYPES, OL 4 [2] A- 4 (2) A- 4 ( Contai G-NONE[1] NOTE, Nythin's stadge that only values from provinging some to be paid on natural sub-grantes) COMMENTS. COVER SCORE: 2 INSTREAM COVER ANCINT CARE ONLY CAR TVOT |Check 44 That Apply) check 3 and 4V2ALGE? A BOOTWADS [1] D-UNDERCHT BANKS (1) -029CW\$(1) Q EXTENSIVE 75% [11] DING THE REPORT OF THE PARTY OF D ACUATIC MACROPHYTES [1] CI - MODERATE 25-75\* [7] o sources (it SHALLOWS (IN SLOW WATER) [1] COS OR WOODY DESRES (1980 SPARSE FISK |1] . O - NEARLY ABSENT & SS(1) ... COMMENTS: CHANNEL; [/) 2] CHANNEL MORPHOLOGY: (Check ONLY One PER Greeney OR check 2 and AVERAGE) DEVELOPMENT CHANNEL TATION STARLING D · EXCENENT [7] D · MONE [6] D · NIGH [7] SWUCSTY MOOPERATIONS/OTHER C 2 HICH (4) C SHAGGING 0 - - - CLHD. ACCOGENITE D: D COCO (0) O - RECOVERED (4) D - MODERATE (2) O - RELOCATION DI SLANCS Sec. AIR DI 2 - LCW (7) A RECOVERING OF LOW [1] D - CANCRY REJKOVAL CI - LEVEED - FOCH (1) Q NONE IT O RECENT OR NO D - BANK S-APTIC O-DRESGING RECOVERY (1) D-ONE SIDE CHANNEL MODPLCATIONS COMMENTS: 4) RIPARIAN 20142 AND BANK EROSION -(energy ONE was per bank or chack 2 and AVENAGE per bank) RIPARIAN: 🕢 q "Fiver Fight Looseg Downsteam" P.P. S RIAN WITTH EROSCHPUNCES - FLOCO PLAIN CUALITY BANK SROSION 1.9 [Mod Presentant Per Bane] L.A. (Per Bark) CE-FOREST Strate of CE-VEEN CE L = [Per Bank] D D WITE SM (P DEDUCERSI DE PEDUCTENILO, LE LONONG PRUTTLE (C) CO-PESCUPARICNEW RELD(1) CO-CONSERV TICKOS[1] CVERY NARROW 1 5m (1) CO-FENCED PASTURE [1] COMMAGEONSTRUCTION ID O O WONE! COMMENTS. POOL/OL/DE AND REFLEREN CURLITY POOL: [/] LUNE DEPTH (CARE S) MODELC OCK SALAR STREET & COMPAREMENTS AND THE O(s) = O(b)(Check 37 (Check AD That Assely) Q \$ 7-14 (4) D' POOL WIDTH'S RIFFER WORTH [2] C1-TORRENTIAL[-1] 01-200(25;1) 2-2001 WIDTH - RIFFLS WIDTH(1) 0-2001 WIDTH - RIFFLS WIDTH(1) E HOPOOLOG 200 AC.70 [2] 0°#457(I) Q'HINTERSTITUL[-1] 2 x 6.4m[1] CLACOBRATE [1] CONTERMITTENT(2) COMMENTS:\_\_ AIFFLE: 7. PICT TOL & CEPTH ALCO DUCK SUPPORT ENTRY FOR AND THE STORENESS D-\$7A& 5 (4.5 Cobin, Source) [2] D-£X7 ENS: D-6CC \$7ABLE (4.9 As Grave) [1] C-£X7 ENS: Q - GENERALLY SID on MAX-SOLA C - GENERALLY >: 4 cm MARKED [0] C-ACMER2: COLORATE COLOR 🗶 GENERALLY S-IDem [1] CASTABLE [Gravel.Savel (6) D GENERALLY + S em [2,4+ - 0] GRADIENT: H COUNENTS\_ 7.700L \_\_\_\_ A) Gradient (feetmile): \_\_\_\_\_ 5.577L5:\_\_ SA BUIRD

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CA Manual (filh Uccale) - Fish - September 30, 1989 Procedure No. <u>WCPA-SWS-3</u> Data Issued <u>9,30-86</u> Revision No. <u>. . . . . .</u> Oare Effective <u>9-30-86</u>

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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TYPE FOR REFLE FOR REAL SUBSTRATE SUBSTRATE SCORE: ETT
CDelDIA SUBST CONTRACT A CONTRACT CONTRACTOR OF
DOGOLDER (H ODSAND (H X CUMESTONE (DAIMARP (H CSZT HEAVY (2) DSCT MOLERATE (1)
TC TAL MANBER OF SUBSTRATE TYPES; (2) 4 [2] (2 4 [2] (2 COAL RHES[.2]) NOTI (4mole alloys 7-a) deginitud from part-sparses; some is based on reality indexand;)
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D MODERATE () O GOOD () O ABOOVERED () O MODERATE () D REOCATION O BLANDS
ST 10W (Z, X FAIR (I) X RECOVERING (1) Y LOW (1) O-CANONY REMOVAL C-LEVEED
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REDOVERY (1) OF ONE SIDE CHANNEL MODIFICATIONS
COMMENTS:
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Day (1515) (Shep 1) Docents (054 AV) Support Conservation
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BIEFLÉ: 7.
G · GENERALLY & ID on ARXA, \$2(4) D.STABLE (* 4.Gottin, functor) [2] D.EXT(SATVE [-1] D.NCOERATE(C]
O - GENERALLY - 12 COLMAX - 53 (5) O - MCC STABLE (1 - DOWN) (1) D. MCNET2
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6] Gradieni ("telimile): %POCL %AUFFLE: %AUFFLE:

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QA Manual (5th Update) - Fish - September 30, 1985 Procedure No. WOPA-SWS-1 Date Issued 9-30-85 9-30-85 Revisión No. Date Ellective 6

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Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record miormation for the calculation of the Ouslitative Habitat Evaluation Index (OHEI).

	geristion Sheet - F	ieh QHÉI SCORE: 현관 나 Q
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		C-SANDSTONE [0] Edited of Emperatures (Cree)
	でででない。4月1日~4月1日	CCAL FINES [12] XE-LOW(0] D-HONE(1)
	dies billen plant-gauge per atore is to	
COMMENTS		
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TY#5	Check All The Apply 1	CHERK 2 AND A VERAGE
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		Non- of Greek 2 and AVEAGE per bank) RIPARIAN: 17.
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COMMENTS.		
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D. CENERALLY		
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al destroyer instantist		

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04	. Manual (6th Upstate) – i	Film - September 30, 1989	
Procedure No.	<u>WOP - 5WS-1</u>	Oale Issued	<u>9-30-64</u>
Revision No.	6	Dale Effective	9-30-89

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the

Obalitative Habitat Evaluation Index (OHER,

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6000 <u>86</u>			
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	2. ALFA S POOL ALFA	540,515,	ATE SHALTY SUBSTRATE SCORE: 12
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		3 LAIESTONE (1)C-AI	PRAP OF CSLT HEAVYERID SILT MODERATEL
CO-CC44.5 p		קאב ווצעודים	ARDPAN (DI C SUT NORMAL K) 2. BILT ARESIL
	осолятир 🗶о	D SANCSTONE [5]	Ener Cr Fubriditest (Chert Cont
		CI SHUE[-]	CH-EXTENSIVE! 200-LKODERATE
TOTAL MENINER OF SUBST	RATE TYPES: 24 4 [2] 0 4 [0]	CON PREST	C-LOW(2) C-ADVE11
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	E (Check All That Apply)		chuck 2 and AVERAGE
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OVERHANGING VEGET			CROPHYTES  1   Q - WOODRATE 25-75% [7]
SHALLOWS IN SLOW W	11 2 800,0685 [1]	RADGE CA WO	DODY DEBRIS IT A PARSE STON OF
			Q - NEARLY ASSENT + SYLL
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SENERALLY JID CHURCH			
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		(Galance, Saure) [6]	
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- GENERALLY SHOLES [1]			GRADIENT: [H]
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GA Manual (5th Update) - Fish - September 30, 9985 Procedure No. WCPA-SWS-3 Dole issued 9-30-84 Seven No. È **Date Elfective** <u>9-30-89</u>

Floure V-4-5. Front side of the Ohio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI),

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Ohie 594 Sits Description Shoet - Fish sour Stor Crys K one: िय 0.00 Real Cost ESB/Cur P IJ SUESTRATE (Check ONLYT - SUBSTRATE TYPE BOXES: Creck of oper present; RIASTRATE QUALTY SUBSTRATE SCORE PCCL, ANFRLE POC. ANTALS TYPE DO-BLOCA SLABSTIC \_ 2 0-8 CULDER (%) ACHARCPANIC DE SILT NORMAL (0) Q-SALT FREE(1) CC-C288L2(3) COMMENTER 2 Frient Df Emberdaness 'Check Greb CO-ARTIFIC (of 3.5HAL≣ (-1) COMMENTS . 1) INSTRUCE COVER TYPE (Clark 43 That Apply) sheets Z and A VERAGE OEEP POCKS [2] D - EXTENSIVE - 75% (11) C-UNDERCUT BANKS (1) CXBCWB(1) AQUATE MACROPHYTES [1] C. SPARSE 5-25% [2] O -OVERHANGING VEGETATION [1] C ROOTWACS (1) D BOLLOEPS [1] SHALLOWS IN BLOW WATER [1] ---COMMENTS: T TRANKE, BERPHELOGY: (Creck ONLY One PER Georgery OR sheek 1 and AVERAGE) CHANNEL TATION STAP DEVE OF VENT MONPEATENSET SPACESON D - EXCELLENT (7) D - NONE (6) G-SNAGSING O MPOUND C · HIGH |4| ACCESATE [7] - - 6000 (5) O - RECOVERED (4) O - MODERATE (2) C - RELOCATION CI - ISLANDS O - CANCEY REACYAL O - LEVEED G LOW(2) C - SAIS (C) A RECOVERING (1) K LOW (1) X-#008(0] O RECENT OR NO O - BANK SHAPING CI DREDGING Q - NONE(1) RECOVERY(1) COMMENTS: 41 RIPARIAN ZONE AND BARX ZROSION + (Couch DOME box per bank of church 2 and AVERAGE per bank)

COVER SCORE: 17. AND COMPANY ON LY ON A C - NEARLY ABSENT - SS(1) CHANNEL: D CI - CNE SIDE CHANNEL HODIFICATIONS RIPARIAN: 5 "River Fight Longing Counciliant" PINK SPCSTON PPERMA WITTH SPOTOWEUNCEE - 7,000 PLAIN CUALITY L.R. (Mote Production) for Banki L.R. (For Bank) C.S.FOREST, SWAMP OF COURSAN OR ACCESTRACES: C. D-MONE OR LITTLE (7) 2 (Per Bank) CO:W05-50a[4] C DI MODERATE NO SO DI COMON PASTUREL RONDACTOL DI SARUE DA DO ARLE(S) COMOCIÉRATE.SI DI NARRON SI ION (D) DI RESIDURARON REID (I) CIDICONSERV. TILLADE (C) O DINEAVY DR SÉVERE(C) YOU WERY MARROW I SHITS CO-FENCED PASTURE [1] C D-MINING CONSTRUCTION (0) CONNENTS . PCCL: POCUSIDE AND RUPLERUA CUALTY. ANY ACTIVATE CONSENT OF COMMENT 1243 057704 [Check 1] POSSER OCK  $\Theta \approx i \sigma (\mathbf{i})$ (Checa 5) (Chem All Their Apply) ₩¢7-:@[4] D €4437=57 🛪 лосч, мють з авля в мотн (д DISTORAENTING - DISCOURSE D NC POOLOJ ONINTERSTITUAL(-1) O-INTERMITTENT(-2) O -POOL MIDTH - RIFFLE WIDTH (15 0.645711 0140058472(1) G- c 0.4= [1] CTOPOCE WIDTH & RIFFLE W. (5) ,≢(stow):I COMMENTS RIFFLE: [4 ALT SHUN EMPEOREDNESS plan track with spin-PARTICULAR SUBSTRATE CHEXTENSIVE (17 OHNODERATE) C DENERALLY STORM, MAD ST (4) Q-\$7A812 (e.g.,Cobtle, Border) [2] **C**OW (1) 25 DENERALLY \$ 10 cm.442.53(1) CHUCC, STARLE (e.g., Pes Grave) [1] GINCNS?? (जनजनगरमः) G GEWERALLY Soldem [1] NSTATLE (Gravel, Sand) (C) O - SENERALLY - Sem Reserved GRADIENT: 4 COMMENTS MARFFLE:\_\_\_\_ 2,808 e; Gradress (leessnile); \_\_\_\_\_ 570CL

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QA Manual (6th Update) - Fish - September 30, 1985			
Procedure No.	<u>wora-sws-1</u>	Date Effective	<u>9-30-99</u>
Revision No.			9-30-99

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Figure V-4+5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical coaracteristics of fish sampling locations. This is used to record information for the calculation of the Cualitative Rabital Evaluation Index (OHEI).

OHEI SCORE: 60 Ohio EPA Site Description Sheet - Fish - 2-2 / 2 4/ E/ 2 P < 1) SUBSTRATE (Creeks GHLTTen Substrate STATE SUITES; Cours all syme a . AVESTRATE AVALITY SUBSTRATE SCORE; FOOL RIFFLE FOCK REFALS TYPE MOGRAVE TI X Substant Origin (Gaude 40) Ser Cover (Charge Over 0.041055.02.425[10] CHARESTONE [1] CHARGE PO DERT HEAVY [-2] CERT MCDERATE [-4] офеанода ос-аваяосла 30 FEBLUER (N COCORDER O SHOT ONE (U) Eners Of Emperaturess (Dwelt Gret DO HARDFAN HI - EXTENSIVE |- EC-MODERATEL-II OC ARTIFIC AN O PHLENI CLEMANNER OF SUBSTRUCE (TYPES) (De 147) (De 147) (De 147) TOTAL NUMERO OF SUBSTRUCE (TYPES) (De 17) (De 147) (De 147) NOTE: (Deres substructed and substructed jet owe COMMENTS COVER SCORE: 9 2) POTREAM COVER AMOUNT CHEEK DALFONS H TYPE (Casek de That Acopy) envice 2 and AVERAGE) KOEA POOLS (2) O -UNDERCUT BANKS (1) C -Oxforws (1) D - EXTERSIVE > 75% (14) D ADUATIC MACROMOTES (1) D MODERATE 25-75% (7) 25-OVERHANGING VEGETATION [1] DECLORE OR WOODY DESRIE (I) - SPAASE 5-25% () D 800,0585 (1) ST-ENALLOWS AN SLOW WATERO [IE . O- NEARLY ASSANT + SYLI COMMENTS: CHANNEL: [8] 3] CRUMMEL MORPHOLOGY: (Carels ONLY One PER Category OR shoes 2 and AVERAGE) DEVEN APPENT CHANNER OF ATTEN MOORE TONSOT- SE SNUCST O-NIGH DE O-SKICCING 0.00000 D - EXCELLENT (7) O - MONE (9) C - HIGH (4) OF ACCEPANTE [7] D. COCO [5] D - RECOVERED (4) C - MODERATE (2) C - RELOCATION O - XLANCS Q - CANOPY REMOVAL Q - LEVEED D- ANA DI JA RECOVERING [3] JE LOW [1] DI RECENT OR NO D DREDGING **D - BANK SHAPING** C FOOR ||| C HONE(1) D - ONE SIDE CRANNEL MODIFICATIONS ACCOVERT(1) COMMENTS: RIPARIAN: 12 4) REPARIAN 2040 AND BANK STOSON - (check ONE box per bank or check 2 and AVERAGE per bank) Aver Acri Looker, Dromstream' ERCRICHERCHERE - ELCON PLANE CONTRA BANK CROSSON 2/2 × 1/4 WC 14 ERCENTERING FE - FEITHER BARK LR (FE BINK) LA Paul Provinsial Fir Bark LR (FE BINK) PAUL FOREST, SWAMP () COUPEN ANSTURY ROWCROPHIC CO SARLE OR OLD RELID[2] A PAUL BRATE,2] COUPEN ANSTURY ROWCROPHIC CO SARLE OR OLD RELID[2] A PAUL BRATE,2] COUPEN ANSTURY ROWCROPHIC CO SARLE OR OLD RELID[2] A PAUL BRATE,2] L B (Per Bins) CO-WOE-30n H 2.5°-46687475 (64676) CONARROW SIDE [2] THE VERY KARROW I Sm (1) CO-FENCED PASTURE [I] DOMINING CONSTRUCTION [8] DD-NONEQ COMMENTS. P001. POOLIGUDE AND REFLECTIVE OUTLITY AI <u>унс остан (</u>55ней () Холл (9) С. 67-ул (4) MORPHON 267 STANDARD CORPORATION (C-1) (Creek 40 Their Agenty) D' 2001, WIDTH & RIFFLE WIDTH [2] 0'-TORRENOWU-1) 0'-E00(551) C #0#00.00 D 646.70.22 SPOCE WOTH - BIT PLE WOTH [1] oʻr stirij D'4475357744[-1] D' POCI, WISTH & RIFFLE W. [3] C = c 0.4m [1] . D'-MOOER41E [1] O'INTERMITTENT[2] A SCOVED CONVENTS:\_\_ RIFFLE: S RED ENVIOLEMENTALESS Profest Bulley Bridger Bulley O EXTENSIVE [1] O NOOSBATEO CENERALLY std cm (MAD Sold) Q-STAB, 8 (e.c., Coote, Bourse() [2] DINCNE'Z' C CENERALLY . IS amount . So [1] O-MOD\_STARLE (signifies Grave) [1] ALCW. [1] ्रिकेन्द्र स्वी<sup>ट</sup>स्टिला D · GÉARRALLY S(ISem[1]) SECONSTANCE [George.Sand] [C] D - GENERALLY + 3 cm (Rice - G GRADIENT: COMMENTS SERUN: 6) Gradient (test/male) \_\_\_\_\_ XPDOL: SAMPLE\_

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OA.	Manual (6th Update) – Fign	<ul> <li>September 30, 1983</li> </ul>	
Procedure No.	<u>WCPA_5WS_</u> 1	Date issued	<u>9-30-89</u>
Revisión No,		Date €fleœive	9- <u>10-89</u>

Figure V-4-5. Front side of the Ohio EPA See Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Dualitative Habitat Evaluation Index (OHE).

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	Squary Crack Acar Chard	
	were TYPE COXES; Check of types press	ni):
TYPE POOL RUPPLE	POCL REALE SUBS	TATE OULTY SUBSTRATE SCORE: ( 7)
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	SAND HE ON LINEST CALL IN D	AIRIAAR DI ST.T HEAVY 120-51.7 MODERATE VIS
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O -SHALLOWS (IN SLOW WATER) [1]		VOODY DEBRIS [1] SPARSE S 25%  3]
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9<u>-36-89</u> 9-36-89 Revision No. **Date Effective** Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical

WOPA-SWS-1

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Procedure No.

OA Merwal (6th Update) - Fish - September 30, 1989

Oate Issued

characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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sour Stallberg			ESB/CHB
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4)         SEPARALAN SONG AND BAND           "Paran Agent Locking Downstraw           Displates with The           L A         (Per Bent)           CC         with Escars           CC         with Escars <t< td=""><td>ο' <u>Επητρογική Μυστη</u> - <u>Α.(ΠΟΟ Μ.</u> L. R. (Alost Anadomizani Per Ba <b>ΣΕρπολεξοϊ, Swawe (</b>) G. D. CASTO, PARAMER () (1) O. CASTO, PARAMER () Ν. 2041/17 [Check 1) ΦΟΟ, ΜΙΟΤΗ - RIFALE ΜΟΤΗ ()] POOL ΜΙΟΤΗ - RIFALE ΜΟΤΗ ()]</td><td>Contraction     Contraction     Contract</td><td></td></t<>	ο' <u>Επητρογική Μυστη</u> - <u>Α.(ΠΟΟ Μ.</u> L. R. (Alost Anadomizani Per Ba <b>ΣΕρπολεξοϊ, Swawe (</b> ) G. D. CASTO, PARAMER () (1) O. CASTO, PARAMER () Ν. 2041/17 [Check 1) ΦΟΟ, ΜΙΟΤΗ - RIFALE ΜΟΤΗ ()] POOL ΜΙΟΤΗ - RIFALE ΜΟΤΗ ()]	Contraction     Contract	
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4) REPARAN 2016 AND BARD           ************************************	• • • • • • • • • • • • • • • • • • •	ANN CONTENT           CICLUREAN CR IN	
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4) REPARAN SONE AND BAND           ************************************	<ul> <li></li></ul>	ANN (1)         L. P. (Per Bank)           CD-URBAN (CR IN           CD-URBAN (CR IN           CD-CARSEN (CR IN           CD-MINAGEDING           CD-MINAGENING           CD-MINAGENING           CD-MINAGENING           CD-MINAGENING           CD-MINAGENING           CD-MINAGENING	BANK SECSION BLASTRIALISI DI DANONE OR UTTLE (2) S. SELDICI AGADUCCI FALTELTI S. SELDICI AGADUCCI FALTELTI S. SECSION (5) POOL: ST POOL: ST BLASTRIALINI (C. NO FOOLIDI D. ANTERNITTEATICI) BLASTRIALINI (C. NO FOOLIDI D. ANTERNITTEATICI) STRETTENEVAL ENDFORMATICI D. CALLER STRETTENEVAL ENDFORMATICI D. CALLER STRETTENEVAL ENDFORMATICI D. CALLER STRETTENEVAL ENDFORMATICI D. CALLER STRETTENEVAL ENDFORMATICI D. CALLER STRETTENEVAL ENDFORMATICI D. CALLER STRETTENEVAL ENDFORMATICI C. CALLER STRETTENEVAL C. CALLER STRETTENEVAL STRETTENEV
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OA Manval (6th Update) - Fish - Secrember 30, 1985 Procedure No. WOPA-SWS-1 <u>9-20-69</u> 9-<u>10-69</u> Date Issued Revision No. Æ **Oate Effective** \_\_\_

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Figure V-4-5. Front side of the Ohio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the

Coalitative Habrat Evaluation Index (OHEI).

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COMMENTS:
1) CHAINING BORPHOLOGY: (Check ONLY ON PER Energy OR check 2 and AVERAGE)       CHAININEL: [7]         Statistics       COUNT OPDENT       CHANNEL: [7]         0: MICH [4]       D: EXCELSIONT [7]       D: MORE [4]       D: STARS INC       0: DMOSING         0: MICH [4]       D: EXCELSIONT [7]       D: MORE [4]       D: MORE [4]       D: STARS INC       0: DMOSING         0: MICH [4]       D: EXCELSIONT [7]       D: MORE [4]         0: MICH [4]       D: EXCELSIONT [7]       D: MORE [4]
4; AIPARIAN 204E AND BASK ERGSON - (creek ONE beg per barn or cruck 2 and 1/16RAGI per bank) RIPARIAN:
"Кенк Аріз Царина Сонтанияна" <u>19-24 - Канк Каларина (1905) (1996) - Араба Канк суль (19</u> <u>19-24 - Канк Каларина (1905) (1997)</u>
Prever Agits Lacung Commission     Extension       Prever Agits Lacung Commission     E3005(0)/#U/00065 - 6.000 (Preversion)       Prever Agits Lacung Commission     E3005(0)/#U/00065 - 6.000 (Preversion)       C R (Am Bank)     L R (Mott Predomission) Per Bank)     L R (Per Bank)       D C WATE Lacung (A)     D C PER 57, SMAMP (D)     D C PER 50, D C PER 57, SMAMP (D)       D C WATE Lacung (A)     D C PER 57, SMAMP (D)     D C PER 50, D C PER 57, SMAMP (D)       D C WATE Lacung (A)     D C PER 57, SMAMP (D)     D C PER 50, D C PER 57, SMAMP (D)       D C WATE Lacung (A)     D C PER 57, SMAMP (D)     D C PER 50, D C PER 57, SMAMP (D)       D C WATE Lacung (A)     D C PER 57, SMAMP (D)     D C PER 50, D C PER 57, SMAMP (D)       D C WATE Lacung (A)     D C PER 50, SMAMP (D)     D C PER 50, D
Press     Report Locure Commission <u>Brits Locure Commission</u> <u>EXCENTING Commission</u> <u>Brits Minight</u> <u>EXCENTING Commission</u> C R (Am Bank)     L R (More Prediction Per Bans)       L R (More Prediction Per Bans)     L R (Per Bank)       D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE Excentia) <u>Minister Per Bank</u> D C (MORE) <u>Minister Per Bank</u> D C (MORE) <u>Minister Per Bank</u> D (Minister Per Bank) <u>Minister Per Bank</u> D
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Figure VI4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Cualitative Habitat Evaluation Index (QHEI).

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Chie EPA Site Description	en Sheet - Fich QHEI SCOP	
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4] ЯІРАКІАН ZOHE AND KANX ŞAĞS:ÖN           "Aver Rupp Lemma Downergan"           "Aver Rupp Lemma Downergan" </td <th>Byverss         Encode PLAIN (2014) (TY         SANK FEDE           3 Prodominant Per Bank)         C Program         C Program         C Program           3 Prodominant Per Bank)         C Program         C Program         C Program         C Program           3 Prodominant Per Bank)         C Program         C Program</th> <th></th>	Byverss         Encode PLAIN (2014) (TY         SANK FEDE           3 Prodominant Per Bank)         C Program         C Program         C Program           3 Prodominant Per Bank)         C Program         C Program         C Program         C Program           3 Prodominant Per Bank)         C Program	
4] AIPAREAN ZOHE AND EXEMU \$205:0N           "Aver Rupe Lecome Downersam"           2022 Average Downersam"           2023 Average Downersam"           2024 Average Downersam"           2024 Average Downersam"           2024 Average Downersam"           2024 Average Downersam	Вумова         Сосол на на суда пту         Залу басе           3 Prodominani Pyr dane)         U. A. (Pyr Bank)         337           37 Synupation         COURSAN OR STOUSTRULY, CONORS :         COURSAN OR STOUSTRULY, CONORS :           28 ANX FEED (1)         COURSAN OR STOUSTRULY, CONORS :         CONORS :           28 ANX FEED (1)         COURSAN OR STOUSTRULY, CONSTRUCTION (0)         CONORS :           29 ANX MEED (1)         COURSAN OR STOUSTRUCTION (0)         CONEANY           20 ANX MEED (1)         COURSAN OR STOUSTRUCTION (0)         CONEANY           20 ANX MEED (1)         COURSAN OR STOUSTRUCTION (0)         CONEANY           20 ANX MEE (1)         COURSAN AND AND AND AND AND AND AND AND AND A	
4] ЯІРАЯБАЙ ZOHE AND БАВАХ БАЙЗ:ЮМ "Алат Rupts Lessing Doministran"           1 2012 - 2013 Company           1 2012 - 2013 Company           1 2012 - 2013 Company           1 2013 Company           1 2014 Company           1 2014 Company           1 2014 Company           1 2014 Company           1 2014 Company           2 2014	Byweiss - E.cool Pi Ally Oyal TTY         SANK FERE           2 Prodominani Per Santa         C. P. (Santa)         C. P. (Santa)         C. P. (Santa)           37 Smitushi Per Santa         C. D. (Santa)         C. P. (Santa)         C. P. (Santa)         C. P. (Santa)           37 Smitushi Per Santa         C. D. (Santa)         C. P. (Santa)         C.	
4] RIPARIAN ZOHE AND BARKY (2005:0N -)           "Aver Ruph: Looming Communities           "Aver Ruph: Looming Communities           "Aver Ruph: Looming Communities           "Aver Ruph: Looming Communities           "Common Communities           COMMON States	Brywness         Electron Pri Allin Gryal (TY)         BANK FEIGE           1 Predomitinani Per Bank)         C D-VERAN OR SUBSTRUCTY         D AND STRUCT (C D-VERAN OR SUBSTRUCTY)         D D-NORS (C D-NORS)           1 PASTURE (T)         C D-VERAN OR SUBSTRUCTY         D D-NORS)         D D-NORS)         D D-NORS)           2 PASTURE (T)         C D-VERAN OR SUBSTRUCTY (D D-NORS)         D D-NORS)         D D-NORS)         D D-NORS)           2 PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         C D-VERAN OR SUBSTRUCTION (D)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         D D-NORS)         D D-NORS)         D D-NORS)           2 D PASTURE (T)         D D-NORS)         D D-NORS)	
4] RIPARIAN ZONE AND BANK (ACS:ON -)         Part Ruch Zone Common Commentant         International Commentant         Intereduct         Int	Byweiss - E.cool Pi Ally Oyal TTY         SANK FERE           2 Prodominani Per Santa         C. P. (Santa)         C. P. (Santa)         C. P. (Santa)           37 Smitushi Per Santa         C. D. (Santa)         C. P. (Santa)         C. P. (Santa)         C. P. (Santa)           37 Smitushi Per Santa         C. D. (Santa)         C. P. (Santa)         C.	
4  AIPARIAN ZOHE AND BARK \$A03:0N         "Aver Rupe Lessing Downersam"         "D'AVERSAME 1950.01"         "D'AVERSAME Stand"         "D'AVERSON Stand"	BY VORSE         E. COOD PLAIN (2014) TTY         SANK FEDEE           2 PRODUMINANT PY DAME)         ( A (Per Bank)         31 PRODUMINANT PY DAME)         ( D (Per Bank)           31 PRODUMINANT PY DAME)         ( D (Per Bank)         31 PRODUMINANT PY DAME)         ( D (Per Bank)           31 PRODUMINANT PY DAME)         ( D (Per Bank)         ( D (Per Bank)         ( D (Per Bank)           31 PRODUMINANT PY DAME	
4] RIPARIAN ZONE AND BANK (ACS:ON -)         Part Ruch Zone Common Commentant         International Commentant         Intereduct         Int	Brywness         Electron Pri Allin Gryal (TY)         BANK FERCE           1 Predomitinani Per Bank)         C D-URBAN OR SHUDSTRUAL(N)         C D-NONS :           1 PASTUASI KOWOROZONO (D D-SHRUS OR DLO FRELD(2)         C D-NONS :         C D-NONS :           1 PASTUASI KOWOROZONO (D D-SHRUS OR DLO FRELD(2)         C D-NONS :         C D-NONS :           1 PASTUASI KOWOROZONO (D D-SHRUS OR DLO FRELD(2)         C D-NONS :         C D-NONS :           1 PASTUASI KOWOROZONO (D D-SHRUS OR DLO FRELD(2)         C D-NONS :         C D-NONS :           2 PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-MININGCONSTRUCTION (D)         C D-NEAVY           2 D PASTURE (1)         C D-NEAVY         C D-NEAVY           2 D PASTURE (1)         C D-NEAVY         C D-NEAVY           2 D PASTURE (1)         C D-NEAVY         C D-NEAVY           2 D PASTURE (1)	
4  AIPARIAN ZOHE AND BARK \$A03:0N         "Aver Rupe Lessing Downersam"         "D'AVERSAME 1950.01"         "D'AVERSAME Stand"         "D'AVERSON Stand"	BY WORS         EARY FROE           1 PRODUITION IN ALL CLUB ITY         1 PRODUITION           1 PRODUITION IN ALL CLUB ITY         1 CARAC FROE           1 PRODUITION         1 C (PARTINE)         1 C (PARTINE)           1 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           1 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)           2 PARTURE (1)         1 C (PARTINE)         1 C (PARTINE)     <	

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Obalitative Habitat Evaluation Index (QHE%).

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	ALTT-9 SVENTIN TYPE FOTES: Clines of 1/3+1 (animal);	
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2040U2840	DOBAND[I]OUMESTONE[I]D.REV.RAP[0], DOLT NEAVY[2]OSILT HODERATS[-I]	
CO-CC88.2(7)	CO-35-7 RC CQ	
	CD-OFTHTUSTIK CSANDSTONE [6]	
	C-EXTENSIVE DSHALEFIT C-EXTENSIVE[-2](-MCOERATE-I)	
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Génarangi 🖌	DI-POOL WICTH / RIFPLE W. [C]	
Génarangi 🖌		
Giovania Gio		
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C	ВСРОСЦ МЮТКУ И ПЕРЕ W. (t)         ВСРИСОВАЛТЕ (1)         О-ИЛТЕНИТТЕЛИ[/2]           СТООСЦ МЮТКУ И ПЕРЕ W. (t)         СТООСЦ МИТТЕЛИТТЕЛИ[/2]         ПЕРЕ LENT           СТООСЦ МИСТКУ И ПЕРЕ W. (t)         ПЕРЕ LENT         ПЕРЕ LENT           СТООСЦ МИСТКУ И ПЕРЕ W. (t)         ПЕРЕ LENT         ПЕРЕ LENT           СТООСЦ ЖИТТЕ W. (t)         ПЕРЕ LENT         ПЕРЕ LENT           СТООСЦ К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT           КОТО К И ПЕРЕ LENT         ПЕРЕ LENT         ПЕРЕ LENT	
С. 442,55 (2) С. 445,55 (2) С. 44	Стород, WICTW / RIFR, E.W., (р)         Остород КОСТК / 1]         О-ИНТЕНИТТЕИ[[2]           Стород, WICTW / RIFR, E.W., (р)         Стород / С.И.Т.Е.И.Т.Е.И.[2]         ПРИ / С. С. С. С. С. С. С. С. С. С. С. С. С.	
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С. 442,55 (2) С. 445,55 (2) С. 44	Стород, WICTW / RIFR, E.W., (р)         Остород КОСТК / 1]         О-ИНТЕНИТТЕИ[[2]           Стород, WICTW / RIFR, E.W., (р)         Стород / С.И.Т.Е.И.Т.Е.И.[2]         ПРИ / С. С. С. С. С. С. С. С. С. С. С. С. С.	
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С. 442,55(2) С.	Direct with a RIFR & w. (t)         Direct control         O-INTERMITTENT(2)           Direct with a RIFR & w. (t)         Direct control         RIFFLE:           Direct control         RIFFLE:         Direct control           Static control         RIFFLE:         Direct control           Static control         RIFFLE:         Direct control           Static control         Riffle         RIFFLE:           Static control         Riffle         Riffle	

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OA Manval (6th Lpdata) - Fish - September 20, 1983 Procedure No. <u>WOPA-5WS-1</u> Date Issued Revision No. <u>E</u>. Date Effective

Figure VH-5. Front side of the Ohio EPA Site Description Sheet for evaluating the peographical and physical

characteristics of ten sampling locations. This is used to record information for the calculation of the Quartative Habitat Evaluation Index (CHEI).

Chia EPA Sila Bacanglian Shaat - Fich OHEI SCORE: 4 mm Blacerasa Creek Ma Corr EUR, Chirk Apt
IT SALESTANTE ICHWAR GAR 7 THIS SUBSTRIE TTYPE ROYES, CHAR AT THE RANKING, IT SALESTANTE ICHWAR GAR 7 THIS SUBSTRIE TTYPE ROYES, CHAR AT THE RANKING, TTYPE PECH RAFTE POOL RAFTE SUBSTRIE (SCHRIFTER POLICITY, SUBSTRIATE SCORE; G.D.BLOTR /SLAES[10]
ACTE: (Snore sadae Vite organizes from pole-matrice spore of based on names supervise) COMENTS
2] DELTREAM COVER           2] DELTREAM COVER         Average
D JINDEACUT BANKS[1] D. DEER POOLS[2] D. COLORNS[1] O. EXTERNAL 73% [1] D. CONECULATION (SECTION (SECTION (SECTION ADDS[1] O. ACCOUNTS LACACOMING IN D. ACCOUNTS AND SECTION (SECTION ADDS) XSHALL CVIS (MISLOW WATER)[1] O. BOULDERS [1] X4-LOSS OR WOODY DEBAS [1] X4ARSE FE3% [7] C. NEARLY ABSENT & 1741]
сонивитя:
A) RIPARIAN ZONE AND BANK EROSION - Ichieca DNE for Jack or chieck 2 and AVERACE per bank) RIPARIAN: 2. "River Right Lowers Completion: Experimentation of the Annalytic State of Average State of Annal
4: RIPARIAN ZONE AND BANK EROSION -Ichoca DNE lets per Jane or check 2 and AVENACE per Jane) RIPARIAN:
4) RIPARIAN ZONE AND BANK EROSION - Icheca ONE for per bank or direct 2 and AVERACE per bank)       RIPARIAN:       2.         **Reverting Commonstant       EDCECONFILINGER - TOTOL PLANK (21 MV)       BANK EROSION         **DARIAN WUTL       EDCECONFILINGER - TOTOL PLANK (21 MV)       BANK EROSION         **DARIAN WUTL       EDCECONFILINGER - TOTOL PLANK (21 MV)       BANK EROSION         **DARIAN WUTL       EDCECONFILINGER - TOTOL PLANK (21 MV)       BANK EROSION         **DARIAN WUTL       EDCECONFILINGER - TOTOL PLANK (21 MV)       BANK EROSION         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       BANK EROSION         **DARIAN WUTL       EACONFILIAN (21 MV)       DECECONFILINGER - TOTOL PLANK (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)         **DARIAN WUTL       EACONFILINGER - TOTOL PLANK (21 MV)       DECEMPTION (21 MV)
4: RIPARIAN 2016 AND BANK EROSION - Isheek ONE for per lank or direk 2 and AVERACE per lank)       RIPARIAN:       [2]         **Res: Right Lower, Comparison       EDOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Res: Right Lower, Comparison       EDOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Res: Right Lower, Comparison       EDOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Res: Right Lower, Comparison       EDOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Res: Right Lower, Comparison       EDOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Gradie And Viewer, Comparison       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       AAVE EROSION         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       Comparison (K)         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       Comparison (K)         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       Comparison (K)         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       Comparison (K)         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       Comparison (K)         **Comparison (K)       EOOFTMUE[Integet: - TIPCH in anti-Cuture V       Comparison (K)<
4: RIPARIAN ZONE AND BANK EROSION - Icheck ONE for per lank or direct 2 and AVERACE per lank)       RIPARIAN:       2.         Three Right Lower Commentant       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       BANK EROSION         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       EDOCIDANING Commentant         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       EDOCIDANING Commentant         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       EDOCIDANING Commentant         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant       EDOCIDANING Commentant         Int Aslan WUT-1       EDOCIDANING Commentant       EDOCIDANING Commentant
4) RIPARIAN ZONE AND BANK EROSION - Icheck ONE for per land or duck 2 and AVELACE per bank)       RIPARIAN:       [2]         Three Right Lower Comparison       EDOCION/EI/HOUSE - ELOCO PLANNING, INV       BANK EROSION       Image: Automatic and a set of the set of check 2 and AVELACE per bank)       RIPARIAN:       [2]         EDARMAN WOTH       EDOCION/EI/HOUSE - ELOCO PLANNING, INV       BANK EROSION       BANK EROSION       BANK EROSION         CD:WIDES Son [4]       EDOCION/EI/HOUSE - ELOCO PLANNING, INV       DOCION/EI/HOUSE - ELOCIONE CALLER (2)         CD:WIDES Son [4]       EDOCION/EI/HOUSE - ELOCIONE CALLER (2)       DOCION/EI/HOUSE - ELOCIONE CALLER (2)       DOCION/EI/HOUSE - ELOCIONE CALLER (2)       DOCION/EI/HOUSE - ELOCIONE CALLER (2)         CD:WARDOW 1-Sm [1]       CDOPENAND REAL PLANK RELD (1)       DOCION/EI/HOUSE - ELOCIONE CALLER (1)       DOCION/EI/HOUSE - ELOCIONE CALLER (1)       DOCION/EI/HOUSE - ELOCIONE CALLER (1)       DOCION/EI/HOUSE - ELOCIONE CALLER (1)       POOCL:       [4]         DI:MONDER AND REALES (1)       MOCERLE (2)       MOCERLE (2)       MOCERLE (2)       MOCERLE (2)       POOL:       [4]         DI:MONDER AND REALES (1)       MOCERLE (2)       MOCERLE (2)       MOCERLE (2)       MOCERLE (2)       MOCERLE (2)       MOCERLE (2)         DI:MONDER AND REALES (1)<
4: RIPARIAN ZONE AND BANK EROSION - Icheck ONE for per land or direct 2 and AVELACE per land)       RIPARIAN:       [2]         Three Right Lower Commentant       EDCENTION (Commentant)       EDCENTION (Commentant)       BANK EROSION         In A Star WET-1       EDCENTION (Commentant)       EDCENTION (Commentant)       BANK EROSION         In A Real Not Commentant       EDCENTION (Commentant)       In Commentant       BANK EROSION         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BANK EROSION         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BANK EROSION         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BANK EROSION         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BANK EROSION         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BIN Real Not Commentant         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BIN Real Not Commentant         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BIN Real Not Commentant         In Real Not Commentant       In Commentant       EDCENTION (Commentant)       BIN Real Not Commentant         In Real Not Commentant       In Commentant       EDCENT (Commentant)       BIN Re
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CA Manual (6in Update) - Fish - Segrember 30, 1989 <u>WOPA-5W5-3</u> Procedure No. Qale issued 9-30-99 9-30-89 Revision No. Date Effective .

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Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHE).

Onis 272 200 Description Sheet - Fi Sour Little Resol	
1) SUBSTRATE  Check GALT Two Substrate TYPE &CRES Chec	2 Al Appen present);
TYPE POOL REFR.E. POOL REFR.E	SUBSTRATE QUALITY SUBSTRATE SCORE
O CALLER & LANSING CALGRAVEL IT 📩 👗 S	intertores Origina (Convert eff) Str. Server (Convert Origina (Convert eff)
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	T115(1)
	SANDSTONE[1]
	SHALE HI D-EXTENSIVE 4 D-MCDERATE-1
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\$\$4MENTS	COVER SCORE:
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TYDE (Check All This Apply)	ences 2 and AVERAGE)
D-UNDERCUT BANKS [1] WOELS [2]	Q - CX1CWS [1] Q - EXTENSIVE > 735- [11]
E-CVERNANCING VEGETATION(1) E-ROOTMADS(1)	
Source on Story Matery (i) G-Boordelies (i)	-LOGS OR WOCDY DEBAIS (SPARSE 5-25% (3)
r .	D - NEARLY ARSENT & IS(1)
COMMENTS:	
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3) CHANNEL MORPH CLOGY: [Check DAR 7 Day PER Criegory O	A check Z and AVERAGE) CHANNEL: 10
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	D-MODERATE (2) D. ALLOCATION D. BLANDS
D. LOW Z D. FAIR OF KARCON	
	D-DREDGING D-BANK SHAPING
	2 - CNE SIDE CHANNEL MODIFICATIONS
COMMENTS.	
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AL AIPARIAN ZONE AND BANK EROSION - (ANACK ONE DAY DAY)	nah ar ganda 2 (re) AV(DACE pet harw) RIPARIAN: 72
aj AIPARIAN ZONE AND RANK EROSION - (check ONE ber per 1 "Free flight Linning Domonikan"	
ај АГРАВЈАН ZOHE AND BANK ЕРОЗЦОН «Кемеск ОМЕ бек ригл "Free flight Latiting Domosiliant" <u>Водорија и иго 74</u> <u>Евросто и В</u> ијато се и <u>огорије и</u>	ANO (1977) - BANK 6805201
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aj AIPARIAN 20NE ANC PANK EROSION Memorik ONE ber per 1 "Forer Augit (Jacom) Dowsziaen" <u>Roza zitan wirz Tak</u> (J. R. (Mart Breeveninen) Per Bar (J. R. (Mart Breeveninen) Per Bar (J. S. (Mart Breeveninen) Per Bar	NA COLUMN CONTRACTOR C
aj AIPARIAN 20NE ANC PANK EROSION Memorik ONE ber per 1 "Forer Augit (Jacom) Dowsziaen" <u>Roza zitan wirz Tak</u> (J. R. (Mart Breeveninen) Per Bar (J. R. (Mart Breeveninen) Per Bar (J. S. (Mart Breeveninen) Per Bar	<u>ана сланита</u> на сланита на сланита осланита са полизтични со съкона се стол 5 (3) радосланита са със лации; со съкона се стол 5 (3) радосланита са със лации; <b>Забос</b> ласа са със лации;
aj AlPARIAN 20NE ANC PANK EROSION - (elect ONE ber per 1 "Forer Asch Comp Downsleen" <u>Rep Film With The</u> L P (Per Bani) L R Oliott Preseminent Per Ban こ かべのも5 5cm <sup>(1)</sup>	<u>ана слантта</u> на слантта на слантта с съ-езия се мали сталации, с съкона се стала (3) с съ-езия се мали сталации, с съкона се стала (3) рај с сърнака са със решира; <b>десн</b> аса са стала (3)
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AIPARIAN 20NE AND PARK EROSION - (elect OPE ber per 1           Freer Auge Lexand Domestion           Bridsham         EROSTON Provening Domestion           Bridsham         EROSTON Provening           Dimestion         EROSTON Provening           Operation         EROSTON Provening           Dimestion         EROSTON Provening           Columbation         EROSTON Provening           Operation         EROSTON Provening           EROSTON         EROSTON Provening           Operation         EROSTON Provening <t< td=""><td></td></t<>	
4) AIPA RIAH 20HE ANC PARK EROSION - (elect OPE ber per 1           "Free Agin Locating Dowdlaten"           Brid Law Wr754         EROSTON Plantet OPE ber per 1           Brid Law Wr754         EROSTON Plantet OPE ber per 1           Dir Wr055 Som A1         L R Oldet Preseminent Per Ber           Dir Wr055 Som A1         Dir Wr055 Som A1           Dir Wr055 Som A1         Dir Wr056 ANTE LoSa (2)           Dir Wr055 Som A1         Dir Wr0765 ANTE LoSa (2)           Dir Wr0765 ANTE LoSa (2)         Dir RESTURE PASTURE (2)           Wr0766 Present NAROW I. Sm (2)         Dir RESTURE (2)           Wr0767 NAROW I. Sm (2)         Dir RESTURE (2)           Cortwonej(0)         Cortwonej(0)           Cortwonej(0)         Dir RESTURE (2)           Wr0767 NAROW I. Sm (2)         Dir RESTURE (2)           Wr0767 NAROW I. Sm (2)         Dir RESTURE (2)           Cortwonej(0)         Cortwonej(0)           Cortwonej(0)         Cortwonej(0)           Cortwonej(0)         Cortwonej(0)           Cortwonej(0)         Cortwonej(0)           Cortwonej(0)         Cortwonej(0)           Cortwonej(1)         Wr044 (0) (0)           Dir Vm (4)         Cortwonej (2)	
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4) AIPA RIAH 20HE AND PANK EROSION - (eheck OPE ber per 1           **Reer Augs Laxang Domision           Bridgitum           Bridgitum           C 1 (P (Par Bant))           C 2 (Par Bant)           C 3 (Par Bant)      <	
4) AIPA RIAH 20HE AND PARK EROSION - (eheck OPE ber per 1           **Free Augt Locard Domination           Bridge Locard Domination	
4) AIPA RIAH 20HE AND PANK EROSION - (eheck OPE ber per 1           **Reer Augs Laxang Domision           Bridgitum           Bridgitum           C 1 (P (Par Bant))           C 2 (Par Bant)           C 3 (Par Bant)      <	
4) AIPA RIAH 20HE AND PARK EROSION - (eheck OPE ber per 1           **Free Augt Locard Domination           Bridge Locard Domination	
4) AIPA RIAH 20HE AND PARK EROSION - (eheck OPE ber per 1           **Free Augt Locard Domination           Bridge Locard Domination	
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4) AIPA RIAH 20HE AND PARK EROSION - (eheck OPE ber per 1         17 Ford Augs Lamma Domestion         8:33 JIAN WITTLE         1.18 (Par Bank)         1.18 (Par	
a) AIPA RIAH 20HE AND PARK EROSION - (sheck OPE bar per 1         "Free Agit Locard Demosion"         Britshin Wight         Britshin Wight         C P (Per Bant)         D (Per Bant)         D (Per (Per Bant) <t< td=""><td>Вали 5205223           NR 0 (литт:         Вали 5205223           NR 18 (Регеник)         С. С. С. С. С. С. С. С. С. С. С. С. С. С</td></t<>	Вали 5205223           NR 0 (литт:         Вали 5205223           NR 18 (Регеник)         С. С. С. С. С. С. С. С. С. С. С. С. С. С
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4) AIPA RIAH 20HE AND PANK EROSION - (eheck OPE ber per 1         11 AIPA RIAH 20HE AND PANK EROSION - (eheck OPE ber per 1         12 Augs Laxing Domitilisen         11 Bridgit Laxing Domitilisen         11 Provide Statistics         11 Provide Statistics         11 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         12 Provide Statistics         13 Provide Statistics         14 Provide Statistics         15 Provide Statistics         16 Provide Statistics         16 Provide Statistics         17 Provide Statistics         16 Provide Statistics         17 Provide Statistics         16 Provide Statistics         17 Provide Statis         17 Provide Statistis	NN OTWERT         BANK 520523           NR L R (Per Burk)         D.D. CAN 52 LTD, 5 (3)           D.D. SHAR 53 DA OLD FELD(2)         D.D. CONSERVITE, 200 CONSERVI, 200 CONSERVITE, 200 CONSERVITE, 200 CONSERVITE, 20

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Procedure No.	WOP4-\$W5-3	Dare Issued	<u>9-10-94</u>
Revision No.		Date Effective	9- <u>10-94</u>

Figure V-4-5. Front side of the Ohio EPA Site Description: Sheet for evaluating the geographical and physical

characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

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			ESCICH R
1) SUBSTRATE (Chess CHL 7 To	O SHOLFIN TYPE BOXES; CAN	a de la constante	
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	005M0 (# 0	IMESTONE (: D-AIPVAA	P (0) CHSILT HEAVY (-2) CST.T HODERATE
	0.0996946	TEL: [1]	ANY C. SET NORMAL, D. O. SET FREE/1
		SANDSTONE (C	Extend Cl. Emperationers (Charge Cove)
2040CK (2)	C X K Distancia	SHALEFO	
TOTAL AGAINER OF SUBSTRATE			O-LOWIC O-NONE(1)
NOTE, Ognove skudge (har ongrass COMMENTS	t new bone-sponent; report is the	( an airte la bha an airte	.'
Ссыменка	<u> </u>		
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	Auck Jo Thu ( Apply)		ANCOUNTS HAR ONLY COM OF
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O -SVERHANGING VESETATION			HYTES [7] O- MOLERATE 21-73% [7]
SHALLOWS (IN SUCH WATER			DERIS (1) C. SPARSE S-254 (2)
<b>A</b>			C - NEARLY ABSENT + SYLT
SCHWENTS:			
I CHANNEL NORPHOLOGY: ICK			
SINUOSITY DEVELOP			MECTONS CT-CH
			NADDING EL MARCUND.
		1-0 [1] 37 A TE [2] 0-9	
D LOW (2) D FAIR (2 D MONE (1) 🗶 MOOR (			ANOPY REMOVAL Q-LEVEED
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4 AURARIAN ZOME AND BARX E	ROSION -(cneck Offe ber per b	ank or shock 2 and 446	
"Rear Act is Locking Downstream"			
RIPLEIAN WIDTH	5705/01/7 10/01 - 51000 - 54		
			BANK SRUSDY
L Fi (Per Bana) I	R Glast Predominant Per Bar		BUNK BEICKEN
C 31-W(35, 40m (4)) 3	R Grost Predominant Per Ban	<ul> <li>L R (Per Bank)</li> <li>DQ-DRAN 2R 24</li> </ul>	naleknet i Drocke te hilling is.
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OA Manual (6in Updare) - Fish - September 20, 1987 Procedure No. <u>WOPA-SW5-3</u> Oate Issued <u>9.30-89</u> Revision No. <u>6.</u> Dare Effective <u>9-30-89</u>

Sigure V-4-5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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LC-1 5/6/00

Figure V-4+5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of two sampling locations. This is used to record information for the calculation of the Qualitative Hapitat Evaluation Index (OHEI).

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Figure V-4-5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Oualitative Habrai Evaluation Index (OHER).

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PC-15 5/2/00

OA M&Avai (6ih Updale) - Fign - September 30, 1995 Procedure No. <u>WOP 4-5W5-3</u> Date Elective <u>9-30-89</u> Revision No. <u>5</u> Date Elective <u>9-30-49</u>

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the

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DA.	Manual (6th Update) – Fish	- Sectember 30, 1989	
Procedure No.	<u>WOPA-SWS-3</u>	Ders Issued	<u>9-30-69</u>
Revisión No.	5	Data Effective	9-30-69

Figure V-4-5. Front side of the Onio EPA S46 Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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TYPE (Check APTN	Mit Aranhei	check 2 and 4 VAA CE
	COLEP #COLS (2) O -COLSCWS (1	
		ACRONATES 11 0 . MODERATE 25-734 (7)
Selections (macon material)		1000Y DE3RES (1) 04 274 ASE 5 25% [1]
COMPENTS.	-	D • MEARLY ABSENT + SK(1)
COMPENS		
) CHARGE MORPHOLOGY; (Charas don's		CHANNEL: 7
	CALING TERCH	MODELET CALLER .
	C ASCOVERING [1] AL LOW [1]	D - SANGAA HEYONAT D - TEAER
C ACAE (1) XE ACOR (1) C	- RECENT OR NO	D - DREDCING D - BANK SHAPING
	RECOVER#[1]	C - ONE SIDE CHANNEL MODIFICATIONS
COMMENTS:		
T PLATER CONFINE AND BASE EXCERCENT	(credit Orif; box per hards or church 2 p	st AVERAGE per bank) RIPARIAN:
"Reven Revis Lankar; Oc-manuals"		
"Roon Refit Ladium Ocymeraum" prink Start wr 1714 - SPOSOWS		BANK SPOSION
"Ямы Адл. Lookar, Оснязанал" <u>рібаліца укруги</u> <u>СРОЗ-Окра</u> L П (Per Back) L R (Mett	PUNDER, 2, 000 PLUN CULUY Predoctional Par Back) 1, 3 (Per Bac	
「Real Ref. Ladux, Oc-Insteam' <u>PICKRAN, W1074</u> <u>59()たの198</u> し 市 (Pert Back) し R (Meat ロコ・W125-Stm (4) 00-FCR55	RUNDER, ROOT RUNDONUTE Predocinent Per Benki (13) (Per Bu ST. \$WANP (P) (10) DURAN	
Rever Repair Laskurg Downstream"         EPUISTORY           EIG ASIAN WITTH         EPUISTORY           L R (Per Back)         L R (Per Back)           D D'WIDSSSm (4)         O D-FORSS           D D'WIDSSFATE 10:56 (5)         YMMCPSEN	BUNDER, BLOCO PLEN CUULTY (Predominani Per Bank) – LA (Per Ban 2. SYANAP DI – ODURBAN AASTUREY SCHRÖRDON DODUBAN	BANK SPOSION AND STANLIN C ONONE OR LITTLE (1) OR DLD FELDE: SPORMCOZARTE(3)
Rever Repair Lasker; Downstream'         EPOSOVE           EIG (Per Bank);         LR (Per Bank);         LR (Per Bank);           EIG (Per Bank);         LR (Per Bank);         LR (Per Bank);           EIG (Per Bank);         CID-F0455;         CID-F0455;           EIG (Per Bank);         CID-F0455;         CID-F0455;           CID-MODEFATE 10-56 (S);         CID-F0455;         CID-F0455;           CID-MODEFATE 10-56 (S);         CID-F0455;         CID-F0455;	BUNDER - BLOCO PLEN CULLEY (Predominani Pre Bank) (L.A. (Pre Ba SZ, STRAMP (D) AASTUASY SOMETACY (D) DS14903 (L.PAR (MEM FIELD (S) D) D2-00438;	BANK EPICEICH BANK EPICEICH DA NOUSTANLIK C OHNNE OR LITTLE (1) CR DLG FELDRE (DOMENCO SANTE(3) EV TLLAGE(1) D GHEAVY OR SEVERE[1)
Rever Repair Lookung Downstream'         EPOINT (2004)           Prick Burk (2004)         EPOINT (2004)           L R. (Per Burk (2004)         EPOINT (2004)           D D'MIDELS Stim (4)         C D'MIDELS Stim (4)           D D'MIDELS Stim (4)         D'MIDELS Stim (4)	BUNDER - BLOCO PLEN CULLEY (Predominani Pre Bank) (L.A. (Pre Ba SZ, STRAMP (D) AASTUASY SOMETACY (D) DS14903 (L.PAR (MEM FIELD (S) D) D2-00438;	BANK SPOSION AND STANLIN C ONONE OR LITTLE (1) OR DLD FELDE: SPORMCOZARTE(3)
Break Regist Lasking Downstream'         End Alaxy with The         End Alaxy with The           L R (Per Bank)         L R (Per Bank)         L R (Per Bank)           L R (Per Bank)         L R (Per Bank)         L R (Per Bank)           D D (MOSESATE 10-56 (2))         The Operation of the State of the Sta	BUNDER - BLOCO PLEN CULLEY (Predominani Pre Bank) (L.A. (Pre Ba SZ, STRAMP (D) AASTUASY SOMETACY (D) DS14903 (L.PAR (MEM FIELD (S) D) D2-00438;	BANK EPICEICH BANK EPICEICH DA NOUSTANLIK C OHNNE OR LITTLE (1) CR DLG FELDRE (DOMENCO SANTE(3) EV TLLAGE(1) D GHEAVY OR SEVERE[1)
Rever Repair Laskers Democratic         EPOInt Over           E         Prink Over         EPOInt Over           L         R         Per Bank;         L         R           L         R         Per Bank;         L         R         Per Bank;           L         R         Per Bank;         L         R         Per Bank;           D         Per Bank;         L         R         Per Bank;         L         R         Per Bank;           D         Per Bank;         L         R         D         Per Par Bank;         Per Par Bank;<	BUNDER - BLOCO PLEN CULLEY (Predominani Pre Bank) (L.A. (Pre Ba SZ, STRAMP (D) AASTUASY SOMETACY (D) DS14903 (L.PAR (MEM FIELD (S) D) D2-00438;	BANK EPOSION AND BANK EPOSION DA NOUSTALLY CONKONE OR LITTLE (1) CR MUS PELICE (1) CR MUS PELICE (1) CR MUS PELICE (1) CONSTRUCTION (C)
"Rown Right Ladure, Downstream"         EPOINT OF PRESS           E         R. Martin         EPOINT OF PRESS           L         R. (Per Bank)         L         R. (Per Bank)           L         R. (Per Bank)         L         R. (Per Bank)           D         WIDESS Som (H)         C         D           D         WIDESS Som (H)         D         D <td>RUNDER - RECOORDEN CURLEN (Predominant Per Bank) 1, 3 (Per Ba 2, 374AMP (P) ODURBAN AASTURE - SOMERCON ODUSAU (, FARALNEW FIRED (1) C. D. CONSE () FARALNEW FIRED (1) C. D. CONSE () FARTURE (1) OCHMORG</td> <td>BANK EPOSION NAN DUSTAILLY C ONONE OR LITTLE (1) DA NOUSTAILLY C ONONE OR LITTLE (1) DA NOUSTAILLY C ONONE OR SEVERE[1] DOMETAUCTION [0] POOL: 55</td>	RUNDER - RECOORDEN CURLEN (Predominant Per Bank) 1, 3 (Per Ba 2, 374AMP (P) ODURBAN AASTURE - SOMERCON ODUSAU (, FARALNEW FIRED (1) C. D. CONSE () FARALNEW FIRED (1) C. D. CONSE () FARTURE (1) OCHMORG	BANK EPOSION NAN DUSTAILLY C ONONE OR LITTLE (1) DA NOUSTAILLY C ONONE OR LITTLE (1) DA NOUSTAILLY C ONONE OR SEVERE[1] DOMETAUCTION [0] POOL: 55
Reset Regist Ladium; Downstream?         EPOINT (Pressor)           E.R. (Per Bark)         L.R. (Per Bark)           E.D.: WIDDESAM (H)         C.D.: Point (Comparison)           C.D.: WIDDESAM (H)         C.D.: Point (Comparison)           WIDS: C.D.: Point (Comparison)         MIDESAM (H)	ВЦКОНЦ «В. ОСО Р. LIN СЦАЦТУ           (Prebasinani Pre Bank)         1, 3 (Pre Bank)           (Prebasinani Pre Bank)         1, 2 (Prebasinani Prebasinani Pre	BANK EPOSION AND BANK EPOSION DA NOUSTALLY CONKONE OR LITTLE (1) CR MUS PELICE (1) CR MUS PELICE (1) CR MUS PELICE (1) CONSTRUCTION (C)
Reset Regist Lasters Downstream'         End Alexa With The         EPOInt Own           Lift (Per Bank)         Lift (Per Bank)         Lift (Per Bank)           Lift (Per Bank)         Lift (Per Bank)         Lift (Per Bank)           Difference         Cift (Per Bank)         Lift (Per Bank)           Difference         Cift (Per Bank)         Cift (Per Bank)           Difference         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)	Відкора, «В. Осо відки слад (ли           (Ризорання) Рибалікі (д. Я. Ори (д.))           S2, Зухами (д.)           Альтіцай калиста(С);;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	BANK EPOSION NAN DUSTAILLY C ONONE OR LITTLE (1) DA NOUSTAILLY C ONONE OR LITTLE (1) DA NOUSTAILLY C ONONE OR SEVERE[1] DOMETAUCTION [0] POOL: 55
Reset Regist Lasters Downstream'         End Alexa With The         EPOInt Own           Lift (Per Bank)         Lift (Per Bank)         Lift (Per Bank)           Lift (Per Bank)         Lift (Per Bank)         Lift (Per Bank)           Difference         Cift (Per Bank)         Lift (Per Bank)           Difference         Cift (Per Bank)         Cift (Per Bank)           Difference         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)           Cift (Per Bank)         Cift (Per Bank)         Cift (Per Bank)	ВЦКОНЦ «В. ОСО Р. LIN СЦАЦТУ           (Prebasinani Pre Bank)         1, 8 (Pre Bank)           (Prebasinani Pre Bank)         1, 8 (Pre Bank)           (Prebasinani Pre Bank)         1, 8 (Pre Bank)           (Prebasinani Pre Bank)         1, 9 (Pre Bank)           (Prebasinani Pre Bank)         1, 10 (Pre Bank)           (Prebasinani Pre Bank)         1, 20 (Prebasinani           (Prebasinani Prebasinani         1, 20 (Prebasinani           (Prebasinani         1, 20 (Prebasinani <td< td=""><td></td></td<>	
"Rown Regist Laskung Doministream"         EPC/2014/01           E.R. K.	Відкора, «В. Осо відки слад (лу.           (Predominani Per Anik) 1, й (Рег Ід.           S2, Зуклар (р.)         О. Диядан           Альтіцяў, комся (С.), О. С.	
"Rown Regist Laskung Doministream"         EPC/2014/01           E.R. K.	BUNDER, RECOONSELEN CURUER           (Predominant Per Bank)         1,3 (Per Bank)           (Predominant Per Bank)         1,3 (Per Bank)           ANSTURE         0,00084N           ANSTURE         0,00084N           (Predominant Per Bank)         0,00084N           ANSTURE         0,00084N           (PARCURE (I)         0,00084N           (PARCURE (I)         0,00084N           MOLOGY         0,00084N           RIFTLE WOTH (I)         0,00084N           ARFFLE WOTH (I)         0,00084N	
"Rown Right Lasking Downstream"         EPC/20049           E.R. (Per Bank)         E.R. (Moto           E.R. (Per Bank)         E.R. (Moto           E.R. (Per Bank)         E.R. (Moto           D.D. (MODEFATE 10:56 (2)         D.D. (POPES)           D.D. (MODEFATE 10)         MODEFATE 10           MADEFATE 10         (CAMES 1)           D.S. (MOL)         (CAMES 1)	BUNDER, RECOONSELEN CURUER           (Predominant Per Bank)         1,3 (Per Bank)           (Predominant Per Bank)         1,3 (Per Bank)           ANSTURE         0,00084N           ANSTURE         0,00084N           (Predominant Per Bank)         0,00084N           ANSTURE         0,00084N           (PARCURE (I)         0,00084N           (PARCURE (I)         0,00084N           MOLOGY         0,00084N           RIFTLE WOTH (I)         0,00084N           ARFFLE WOTH (I)         0,00084N	
'Rown Ref.R. Ladure, Downstream'           pit/s210/sym174         SP(15:0)/99           L.R. (Per Bark)         L.R. (Per Bark)           D.D. WIDDERATE 10:50 (2)         CD-F07855           D.D. WIDDERATE 10:50 (2)         CD-F07055           D.D. WIDDERATE 10:50 (2)         CD-F07055           D.D. WIDDE AND REFELEMENT OWALTY         WIDERATE 10           WIDERATE 10:50 (2)         WIDERATE 10           D.S. (0) (2)         CD-F07055           D.S. (0) (2)         CD-F07057           D.S. (0) (2)         CD-F07057           D.S. (0) (2)         CD-F070574	BINDER: NELOCO PLENICUS(ITY           CPredominani Per Anniel L. 3 (Per La           CPARCININI Per Anniel L. 3 (Per La           Austrumer Per Oliversity           Austrumer Per Oliversity           Community           Austrumer Per Oliversity           COMMUNICATION           MOLOGY           RIARLEWORTH IN           AMERIE           AMERIE           COMMUNICATION           MOLOGY           COMONA           COMONA           COMERCIA           COMMUNICATION           COMMUNICATION           COMUNICATION           COM	
Rown Rdya Lasker, Downstream'         EPC/ECXYP           L R (Per Bark)         L R (Per Bark)           L R (Per Bark)         L R (Per Bark)           D D': MODEFATE 10.50 (D)         DD': POPER 2           D D': MOREATE 10         MODEFATE 2           D D': MOLEFATE 10         MODEFATE 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D	BINDER: NELOCO PLENICUS(ITY           CPredominani Per Anniel L. 3 (Per La           CPARCININI Per Anniel L. 3 (Per La           Austrumer Per Oliversity           Austrumer Per Oliversity           Community           Austrumer Per Oliversity           COMMUNICATION           MOLOGY           RIARLEWORTH IN           AMERIE           AMERIE           COMMUNICATION           MOLOGY           COMONA           COMONA           COMERCIA           COMMUNICATION           COMMUNICATION           COMUNICATION           COM	
Reset Regist Lasters Downstream'         EPOLECtive           Link Alexandream         EPOLECtive           Link Alexandream         EPOLECtive           Link Object         EPOLECtive           Difference         EPOLECtive           EPOLECtive         EPOLECtive	BINDER: NELOCO PLENICUS(ITY           CPredominani Per Anniel L. 3 (Per La           CPARCININI Per Anniel L. 3 (Per La           Austrumer Per Oliversity           Austrumer Per Oliversity           Community           Austrumer Per Oliversity           COMMUNICATION           MOLOGY           RIARLEWORTH IN           AMERIE           AMERIE           COMMUNICATION           MOLOGY           COMONA           COMONA           COMERCIA           COMMUNICATION           COMMUNICATION           COMUNICATION           COM	
Rown Rdya Lasker, Downstream'         EPC/ECXYP           L R (Per Bark)         L R (Per Bark)           L R (Per Bark)         L R (Per Bark)           D D': MODEFATE 10.50 (D)         DD': POPER 2           D D': MOREATE 10         MODEFATE 2           D D': MOLEFATE 10         MODEFATE 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D': POPER 2           D S': MOLEFATE 2         D	BINDER: RECOONSIGNED AND SET OF SET	
Reset Regist Lasters Downstream'         EPOLECtive           Link Alexandream         EPOLECtive           Link Alexandream         EPOLECtive           Link Object         EPOLECtive           Difference         EPOLECtive           EPOLECtive         EPOLECtive	Відорії, «Віску ріцки сладіти           СРизовільні Регалікі (18 (Регіл.           21, Зухамр (рі.           Аларіцаєї, «Закід Сладіти           Аларіцаєї, «Закід Сладіти           Аларіцаєї, «Закід Сладіти           Срадовільні Регаліськи Сладіти           Аларіцаєї, «Закід Сладіти           Срадовільні Регаліськи           Аларіцаєї Сладовід Регаліськи           Срадовідни Граніськи	
Reset Regist Lasters Downstream'         Ended with The         Ended with The           Life (Per Bank)         Life (Per Bank)         Life (Per Bank)           Life (Per Bank)         Life (Per Bank)         Life (Per Bank)           Difference         Difference         Difference           Differ	Відорії, «В. ОСО РІДКИ СІДІЛИ           Відорії, «В. ОСО РІДКИ СІДІЛИ           SI, ЗУХАНР (В)           SI, ЗУХАНР (В)           AASTURE (S)           AASTURE (S)           COMMONS           SI, ЗУХАНР (В)           COMMONS           AASTURE (S)           COMMONS           MOLOGY           SUCOY	
Rown Repail Laster, Do-mismean'         EPCIS Over           E         Repail Laster, Do-mismean'         EPCIS Over           L         R         (Metric         L         R           L         R         (Per Bank)         L         R         (Metric           L         R         (Per Bank)         L         R         (Metric           D         (MIOSS Som [4]         D         D         (Metric           D         (MODSERATE 10.56 (2)         D         (Metric           D         (MODSERATE 10.56 (2)         D         (D)         (Per Bank)           D         (MARCHAR MARROW 1.5m [2]         D)         (D)         (Per Bank)           COMMENTS:         COMMENTS:         D)         (D)         (Per Bank)           MAX         EPTTM         (Partic)         (D)         (Per Bank)           D         Stafficit         (Comestion)         (D)         (D)         (D)           D         (Per Bank)         D)         (D)	BIJKORI, SELCOD PLENCIJE (TY           CPREDOMINANI POLOVICI (1, 2, 4) (PF (La)           SZ, STWANP (2)           SZ, STWANP (2)           COLORAN           AASTURE (2)           COLORAN           SZ, STWANP (2)           COLORAN           AASTURE (2)           COLORAN           SZ, STWARP (2)           COLORAN           COLORA	
Rown Right Laster, Downstream'         EPUID Over           E.R. (Per Bank)         L.R. (Per Bank)         L.R. (Per Bank)           L.R. (Per Bank)         L.R. (Per Bank)         L.R. (Per Bank)           D.D. (MODERATE 10:56 (b)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (b)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (b)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (b)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (b)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (b)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (c)         DEC (PER Bank)         DEC (PER Bank)           D.D. (MODERATE 10:56 (c)         DEC (PER Bank)         DEC (PER Bank)           D.S. (MOLE 10:50)         DEC (PER Bank)         DEC (PER Bank)           D.S. (MOLE 10:50)         DEC (PER Bank)         DEC (PER Bank)           D.S. (MOLE 10:50)         DEC (PER Bank)         DEC (PER Bank)           D.S. (MOLE 10:50)         DEC (PER Bank)         DEC (PER Bank)           D.S. (DE (PER Bank)         DEC (PER Bank)         DEC (PER Bank)           D.S. (DE (PER BAnk)         DEC (PER Bank)         DEC (PER Bank)	BIJKORI, SELCOD PLENCIJE (TY           CPREDOMINANI POLOVICI (1, 2, 4) (PF (La)           SZ, STWANP (2)           SZ, STWANP (2)           COLORAN           AASTURE (2)           COLORAN           SZ, STWANP (2)           COLORAN           AASTURE (2)           COLORAN           SZ, STWARP (2)           COLORAN           COLORA	
'Rever Repail Looker, Downstream'         ENANCY           Link (Reversion)         ENANCY           Link (Reversion)         Link (Reversion)           Difference         Difference           Difference         Difference <td>BIJKORI, SELCOD PLENCIJE (PV           CPREDOMINANI POLOVICI (PLENCIJE (PV           SZ, STANAP (PL           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STARAR (SUPCACT) (D.SSRUG           VALOGY           SZ, STARAR (SUPCACT) (D.SSRUG           ABFR, E.M.(STALL) (D.STARS)           ABFR, E.M.(SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)</td> <td></td>	BIJKORI, SELCOD PLENCIJE (PV           CPREDOMINANI POLOVICI (PLENCIJE (PV           SZ, STANAP (PL           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STARAR (SUPCACT) (D.SSRUG           VALOGY           SZ, STARAR (SUPCACT) (D.SSRUG           ABFR, E.M.(STALL) (D.STARS)           ABFR, E.M.(SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)	
'Rever Repail Looker, Downstream'         ENANCY           Link (Reversion)         ENANCY           Link (Reversion)         Link (Reversion)           Difference         Difference           Difference         Difference <td>BIJKORI, SELCOD PLENCIJE (PV           CPREDOMINANI POLOVICI (PLENCIJE (PV           SZ, STANAP (PL           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STARAR (SUPCACT) (D.SSRUG           VALOGY           SZ, STARAR (SUPCACT) (D.SSRUG           ABFR, E.M.(STALL) (D.STARS)           ABFR, E.M.(SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)</td> <td></td>	BIJKORI, SELCOD PLENCIJE (PV           CPREDOMINANI POLOVICI (PLENCIJE (PV           SZ, STANAP (PL           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STANAP (PL           AASTUAR (SUPCACT) (D.SSRUG           SZ, STARAR (SUPCACT) (D.SSRUG           VALOGY           SZ, STARAR (SUPCACT) (D.SSRUG           ABFR, E.M.(STALL) (D.STARS)           ABFR, E.M.(SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)           SZ, STARA (SUPCACT) (D.STARS)	

PC-13 5/8/2

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Hapital Evaluation Index (OHEI).

Chie E7A Site Description Sheet	
sour Proper Creck	
1) SUESTRATE COME ONLY TWO SUBJECT TYPE #GX	Ef: Cardi al Inser anami:
	MALE SUBSTRATE OWNER SUBSTRATE SCORE: THE
DOM LOER /SLAES[19] CO-CRAVE. [7]	Substante_Onoin (Check all) Sils Concer (Check Grav)
	CLANESTONE (12)-AIRWARPER CLEUT HEAVY (-2) (SET MCCERN TO SU
0.0-0288.20	DTELS [1] ANAROPAN [0] D. SET NORMAL [0] D. SET THEE [1]
gOHARDHAN HI X 000ETHTUSPLY	D-SANDSTONE IR Entering Check One!
	D5H4L5[-1] D-4x72NSNE(-2)#-W002A476(-1)
TOTAL NUMBER OF SWESTRATE TYPES: Do 4 (2) T-44	
NOTE: Hypers shalps the conjugate from part-sectors; and	in the based on analysis land grants
COMMENTS	
	COVER SCORE: 17
2 HSTALL COVER	ANCLU-III Chest Dwg 7 Des ar
TYPE [Check ATTING Apply]	
O - KINDERCUT BANK'S [1]     J-0669 FOO     O - ROOTWAD     O - ROOTWAD     O - ROOTWAD	
L-SHALLOWS ON SLOW WATERS [1] D 4800.000	
A sweet on standard and stand	_ Q- MEARLY ASSENT < SK(1)
COMMENTS:	
3) CRANNEL HORPHOLOGY; (Czack GALT One PER Ca	LESONY OR Shock 2 and AVERAGE CHANNEL: [70]
SINTICSTY DOVE COMENT CHANNELTL	
Q - HIGH (4) Q - EXCELLENT (7) Q - NONE (4)	Q HIGH DI STACONG Q MPOLAD.
0 - MODERATE (3) O-0000 (5) O-RECOVER	ED (4) X HOOEPATE [2] O REOCATION D SLANDS
	ING DID LOW (1) D - CLAIDEY REACYAL C - LEVERD
D NONE[1] D POCH (I] D RECENT (	
	AT [] D - CNE, SIDE CHANNEL HODIFICATIONS
COMPENTS:	
4 RIPARAN ZONE AND BANK EROSION - (check ONE)	her per bank of check 2 and AVERACE per tank) RIPARIAN; [7]
"Aver Right Locard Connaisent"	
	H Per Bana] L R (Per Bank)
DD-WDE-SOM HI STOREST, SWAMP (	
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D: C+-0.7-201         E/200L W/DTN - RIF7LS W/D           D: x 0.4m (1)         D'700L W/DTN - RIF7LS W.(           D:	
D-C.4.2.7-201         D-C.4.2.	
D-C+-0.7-5(1)         E(POOL WIDTH - RIFFLS WED           D-C+-0.7-5(1)         D'POOL WIDTH - RIFFLS WED           D-C+-0.2-5(1)         D'POOL WIDTH - RIFFLS WED           C0.2-5(1)         D'POOL WIDTH - RIFFLS WED           C0.2-5(1)         D'POOL WIDTH - RIFFLS WED           C	
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D-C+-0.7-5(1)         E(POOL WIDTH - RIFFLS WED           D-C+-0.7-5(1)         D'POOL WIDTH - RIFFLS WED           D-C+-0.2-5(1)         D'POOL WIDTH - RIFFLS WED           C0.2-5(1)         D'POOL WIDTH - RIFFLS WED           C0.2-5(1)         D'POOL WIDTH - RIFFLS WED           C	
D-2.4.2.7-2.2]         Ep200C_WIDTN = RIFFLS WED           D-2.4.4.7(1)         C'.POCL_WIDTN = RIFFLS WED           D-2.4.4.7(1)         C'.POCL_WIDTN = RIFFLS WED           C-2.4.2.7-2.1         C'.POCL_WIDTN = RIFFLS WED           C-2.4.4.7.7-2.1         C'.POCL_WIDTN = RIFFLS           C-3.4.4.7.7-10         C'.POCL_WIDTN = RIFFLS <t< td=""><td>Exercise         Constraint         Constrain</td></t<>	Exercise         Constraint         Constrain
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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical

characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Habrat Evaluation Index (OHEI).

Onio E2A Sila Deceri Sman		- 	
			M ESH/CU/B
I SUBSTRATE [Check GAL YTHE S.	BIRSH FYRE SOLES, COM	ad these presents	
TYPE ACCLIRIFICE	POOL RIFFLE	SUBSTRATE OF	UNITY SUBSTRATE SCORE: FR
	GANNEL MY X X &	is strain Gridio (Overs el	10 <u>10 Cover (Cover)</u>
	Samole X Xou	AGSTONE IT CARPORAT	DI DISAT HEAVY (-2) O-SKT MODERATE (-1)
			AN [0] R SILT NORMAL (0] O SLT FREE [1]
		SWOSTCHEIN	Ener Of Ensenances (Deet One)
	-ARTHOUND 04	\$442.5 (-1)	C-EXTENSIVE + 21C-MOCENATE-1
TOTAL MANBER OF SUBSTRATE FY		COME FINES (12)	ALOMO D-ACNER
NOTE: (gnose study: that organizes in	- DOVE-SHARE RECORD TO DESC	a en record conservation	
COMMENTS			
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2] DISTRIBUL COVER	-		AMCLEVER OWLY One or
Trac (Cont	An Thui Agely)	•	sheets 3 and 4 VERACE
O -UNDERCUT BANKS [1]		O-0406W3[1]	Q - EXTENSIVE - 75% [11]
DECKER CALCING VEGETATION [1]	[1] 20.440 COR. D		HYTES () G - MODERATE 25-75% (7)
A SHATTON S (N POON ANY LESS (1)		APPLOCE CRIWCOOT	268A/5 (1)27- 57AA56 5-25-5 (2)
			_ Q + NEARLY ASSENT + 35(1)
COMMENTS:			· · · · · · · · · · · · · · · · · · ·
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3 CHANNEL MORPHOLDCY; (Check			
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	O RECOVERED [4]		ECCATION O-SUANOS
D FAIR AL	38 · RECOVERING DI O		ANOPY REMOVAL DI LEVIED
	O RECENT OR NO		REDGING Q - BANK SHAPING
	위동수수 V 문제가 [1]		- ONE SIDE CHANNEL MODIFICATIONS
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Auto Braze weetta 240	EXTERNAL PLACE AND A	19 (9 (9 <del>- 7</del>	BASAC EPICETON
L R (Per Bank) L R	Glost Fredominant Por Ban	E L R (Per Barres)	
C D' WDE-Stim [4]	FUREST, SWALP ();	COURSAN CRIND	USTRALLY, D. CANCINE CRITICE (7)
CO-4025747210/021 60-	OPEN PASTURE FOWGROP	191 C C-SHALA CA OLD	RE 2(4) 20204-4032A472(2)
	RESED_PARK_NEW RELD (1		
22 VERY NARROW I Sall 001		Q Q-MINING/CONST	RUCTION (6)
CC-NONEIR			
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C-0.7-1m[4] O-POOL W	OTH , MARLE WIDTH 2	CT-TOPAENTING-1	Q-10016511
D-640.740	IOTH + RUFFL = WIOTH  1	Q'-FAST[s]	CT-INTERSTITULI-1 C HOPDOUD!
0-20-44111 C-POOLW	STA - RIFALE W. (0)	CT-HCOEAATE [1]	
S		C1-SUCH [1]	
COMMENTS:			
			RIFFLE: S
THE FAMILY DESTRICT	PIER FRUM SUS		
CENERALLY HID COLMAL SO [4]	C-STABLE (+.2.5	ceble, Soulcevi (2)	O-EXTENSIVE [-1] C-MCOERATES
C - GENERALLY STORE, MAXeSO[3]	D-MCC, STABLE	to g. Pas Gravel (1) 3	B(LOW. [1] C-ACNEZ
G - GENERALLY S-10 mm [1]	WUNSTARLE (C	Revel Samo [6]	
C - GENERALLY & 5 cm [P.m 6]			
COMMENTS			GRADIENT:
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g PA (4525)

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical coaractensities of tish sampling locations. This is used to record information for the calculation of the Cuahative Habdal Evaluation Index (OHEI).

	Operation Shoot - Fish         Other
I SHEETYATE ICANA ON	A YTHE SUBJECTS TYPE BOSES: CHEER AT THE SUBSTRATE SUBSTRATE SCORE: (2.)
	A THE SUBJECT
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	Ale and a set of the s
COMMENTS	
	COVER SCORE:
2] DISTREAM COVER	
	TE (Check An Than Apply) elses I and A VERAGE
D-UNDSREWT BANKS (1)	A DEEP POOLS [2] D -DXBCW9(1) D - EXTENSIVE > 75* (1)
COVERHANGING VEGET	
3 - SHALLOWS IN SLOW Y	
CONVENTS.	
	Its Church ONLY One PER Category OR courses and AVERAGE CHANNEL:
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O MODERATE DI C. C	CCC (5) C RECOVERED (4) D MODERATE [2] D - RECOLATION C - SUMCS
27 LOW [2] D 6	AIR [1] JOS RECOVERING [1] JO- COW [1] D CANCEY REMOVAL O - LEVERS
D NONE(I) SE	DOA(1) O RECENT OR NO O OREDGING O - BANK SHAPING
··· 6	REGOVERY [1] O - ONE SIDE GWAANEL HODIFICATIONS
COMMENTS:	
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"Rover Roget Leasing Downson <u>Anna Rozen Kommuni</u> L. A. (Par Jaca)	NAM" LINE - A TOD OLIVI CLAR TY ERCENDE L R. Dioni Predeminant Per Banki, C. R. (Per Banki)
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*Arren Ropit Loberg Downson <u>Arren Ropit Loberg Downson</u> L.A. (Per Brunn) C.D.: WIDEs Ster (A) C.D.: WODERATE (ArSd) O.D.: WARROW \$-10m(2)	EAR         ΕΙΛΟΥΒΙΛΑΓΙΣΕ - Α.ΤΟΟ ΡΙ, ΕΥΛΟΙΑΥ, ΤΥ         ΕΙΛΟΥΒΙΛΑΓΙΣΕ - Α.ΤΟΟ ΡΙ, ΕΥΛΟΙΑΥ, ΤΥ         ΕΙΛΟΥΕΘΟΥΟΝ           L R. [Mont Predeminant for Bank]         2.8 [Per Bans]         ΕΙΛΟΥΕΘΟΥΟΝ           ΦΕΛΟΥΕΘΟΥΟΝ         Ο Ο Ο ΑΡΑΛΗ CR ΜCUSTRUC(Ο) Ο Ο-ΑΛΟΝΕ ΟΡΙ (ΠΤΙΕΕ (Γ))           ΦΕΛΟΥΕΛΟΥΝ         Ο Ο Ο ΑΡΑΛΗ CR ΜCUSTRUC(Ο) Ο Ο-ΑΛΟΝΕ ΟΡΙ (ΠΤΙΕΕ (Γ))           Ο Ο Ο ΟΡΑΛΗ CR ΜCUSTRUC(Ο) Ο Ο-ΑΛΟΝΕ ΟΡΙ (ΠΤΙΕΕ (Γ))         Ο Ο Ο ΑΡΑΛΗ CR ΜCUSTRUC(Ο) Ο Ο-ΑΛΟΝΕ ΟΡΙ (ΠΤΙΕΕ (Γ))           Ο Ο ΟΡΑΛΗ ΛΑΤΙΑΡΙΑΥ ΑΘΟΥΓΑΡΙΑΤΕΙΑΝΟ ΟΓΙ (ΠΤΙΕΕ (Γ))         Ο Ο ΟΛΑΛΗ CR ΜΟΟ ΔΕΛΑΤΕΙΑΝΟ ΟΓΙ (ΠΟ Ο ΕΛΟΝΕ ΟΡΙ (ΠΤΙΕΕ (Γ))           Ο Ο ΟΡΑΛΗ ΛΑΤΙΑΡΙΑΥ ΑΘΟΥΓΑΡΙΑΝΙΚΑΙ Ο Ο ΟΛΑΛΗ CR ΜΟΟ ΤΕΙΔΙΖΙ         Ο Ο ΑΛΟΝΕ ΟΡΙ (ΠΤΙΕΕ (Γ))           Ο Ο ΟΛΑΛΕΙΑΥ ΑΛΟΥ ΑΛΟΥ Ο Ο ΟΛΑΛΗ CR ΜΟΟ ΤΕΙΔΙΖΙ         Ο ΟΛΑΛΑΛΕΙΑΝΟ Ο Ο ΟΛΑΛΗ Ο Ο ΟΛ
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Figure V-4-S. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Cualitative Habitat Evaluation Index (QHEI).

Ohio 574 Site Description Sheet - Fish	OHELSCORE: ST 4
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Figure V-4-5. From: side of the Ohic EPA Sile Description Sheet for evaluating the geographical and physical

characteristics of lish sampling locations. This is used to record information for the calculation of the Cualitative Habitat Evaluation Index (QHEI).

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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SOVERHANGING VEGETATION [1]				OFFIATE 25-75% (7)
D-SHALLOWS ON SLOW WATER [1]		ZROCS CR WOODT		
				ULY ABSENT + 15(1)
COMMENTS		-	".=	
				C#10
3 CHANNEL WORPHOLOGT: (Check	ONLY ONE PER Criestony OR p	Persk 1 and AVERAG	6	CHANNEL:
SINUCSITY DEVELOPMENT			STGATIONS OTHE	
			INAGGING	D - 842CLMD.
G - NCOÉNATE (3) G - GOCO (5)	D-RECOVERED (+) CI-		ELCCATION	D- BLANCS
	AECOVERNO (1005		ANOPY REMOVAL	O - LEVEED
D-NCNE[r] SC-POCAU	C. RECENT OR NO		REGING	O- BANK SHAPPIG
	RECOVERY (N		- ONE SIDE CHAP	ALS MODIFICATIONS
COMHENTS:				
AF RIPARIAN ZONE AND BANK EROSI	ON + (check ONE that per han)	k w chuch 2 and AYE	RUGE per barinj	RIPARIAN:
"Free Rore Lowers Connerson"				معب
BIJAPIEN WOTH FED	SKONFUNCTE - TLOCO PLAN	CULTY	ta ha	<u>w_==25:C+</u>
(R(PerBank) LB	(Mass Pressminum Per Bank)	L R (Per Bank)		
C27-W05-20m (4) 024	FCREST, SWAMP (0)	OC URSAN OR PI	зистяницеј са с	NACINE CRIVETTLE [3]
COMPOSEATE 10 SU 73 COM	PEN PASTURE/ ROWGROP(C	CONSHRUP OF QU		uccentru?
CO-RUBBOW S-166 (2) 200	AESO, PARK, NEW FIELD [1]	DO-CONSERV. TH	LAGE (I) C C	HEAVY OR SEVERI(1)
VERY NARADW 1 Smith 00-1	ENCED PASTURE [1]	COMMING/CONS!	RUCTION [0]	
OCI-NONEIG				
COMMENTS:			_	
PODUGUDE AND REFLERUN QUALS	n in the second s			- PDOL:  95
	ADDAHOLOGY	argin, ⊆urgen	THE CURNENT VI	
	(Check 1)	(Charge Ald The		
	OTH > REFELS WIDTH [2]	D' TOARENTIAL I		<b>F</b>
	OTH - AIFALS WOTH IS	O FASTIN	0.411545777	Up of [5 No POCE 0]
	DTH & 907715 W. 19	D'MODERATE (1)	CANTERNITTS	
C		A SCOWLED	-	
COUNENTS:				
				RIFFLE: D
8-17 <u>7 2</u> /84N 05274	presi <u>svetni svets</u> i	7.54 75		CONFINESS LIL
CENERALLY >10 cm, MAX-S0[4]	D-57ABLE (4.9.Cet			DECOSRATES
2-GENERALLY NOT MAINAGE	Q-MOC STABLE (*		GLOW. [1]	DHONES:
0 - 65NERALLY 3-19 CH [1]			e reacht	
C - GENERALLY 3-10 CH [1] C - GENERALLY 2 5 co [201 - 6]	Advine Les [0444			
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6] Gregieni (tegumile):	-200L		WRIFFLE:	
el conservant free framel:				

1=4 4525

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РС-G 5/14/00

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<u>9-30-49</u> 9-30-69

Figure V-4-5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (DHEI).

Chie EPA Sils Deceription	Shoet - Fich	OHEI SCORE: 30 38
some Vigion Creek		ERK B
0-39 C		
I) SUESTANTE (Charts Card YTwo Substantial	POO, REFLE SUBSTRATES	MALITY SUBSTRATE SCORE:
TYPE POOL NUPPLE		
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20-804L064 (M) 0.0-5440 (		PAN (0) DI SET NOPALAL (0) DI SET PARELO
00-MD40		Ecters Of Emperatories (Costs Cost)
OCHANDRAN PI X ODOETA		C-EXTENSIVE[200-ACDERATE(1]
TOTAL MARGER OF SUBSTRATE TYPES: D. 4		
NOTE: Hypers allings that properties from power-s		:
COMMENTS		COVER SCORE: 0
·		A MOUNT CRACK ONLY ON OF
2) DESTREAM COVER		check 2 and AYERAGE
TYPE (Check As That	0624 NOOLS [2] Q. OXBOWS (1)	Q - EXTENSIVE - 73% (11)
		HYTES [1] D - HODERATE 21-73% [7]
		DEIRIS (1)26 \$7485E 5-25% [3]
CONTRACTOR OF SCON WATER [1]	-POLILIEPS [1] XLLOCS OR WOOD	D . MLARLY ABSENT + MIT
·		
COMMENTS		
I CHANNEL MORPHOLOGY; (Check ONLY O	- REB C manage (18 cherry 2 and 4VEdA)	CHANNEL: 7
		NOTATONS OT SE
		SNAGOING D. M. COM.
C-MCH[+] D-EXCELLENT[7] D-		ABLOCATION C - IELANDS
	- Here	CANDRY REMOVAL D - LEVEED
	and the second se	ORECOING D BANK SHAPING
O-HONE(1) , 20 HOOR(s) 0-		D- ONE SIDE CHANNEL MODIFICATIONS
	MECOVERY [1]	
COMMENTS		
		SALES
4) RIPARIAN ZONE AND BANK DUDSION - (4	check QAE has per bent or check 2 and AV	AAGE per berti RIPARIAN: 4
4) RIPARLAN ZONE AND BANK EROSION - IN "Real Pacta Loging Containant"		
4) GIPLAND ZONE AND BLOCK ENDSIGN -44 "Rear Rore Loging Downstream" pray Bran with	UNCAT - ELOCO PL DEL CULL TH	CALCE PER SURF, RIPARIAN: 4
4) RIPARIAN 2008 AND BANK EROSION -40 "Rows Right Lagring Downsidean" <u>Provide Right Banks (Construction</u> L.R. (Per Bunk) L.R. (Mari I	yweith - <u>El gen in ver felar <sup>weg</sup></u> Presenieunt fan Sankjij L. R. (Per Bard)	<u>1117 = 20174</u>
4) RIPARIAN 20HE AND BANK EROSION - (c "Rover Bore Loging Downsware" <u>Provide Anno</u> <u>FEC Storym</u> L R (pro Burn) L R (Masi I C R: WIDS: Son (4) CO-FORES:	1996 af i <u>e nord de dente par mu</u> Presseningel Par Banki – L. R. (Per Banki 7. Swissen () : <b>Sali</b> zurgawi (Per J	<u>BANY BROLING</u> NOUSTRIALING IN LITTLE [2]
4) RIPARIAN 2018日 AND BANCK EROSION - (4 Rover Right Loging Contransus 	<u>ungari e god bu un guar m</u> Mosemiani fer Anki II. R. (Per (end) 7. Swaar (1) <b>(aligungan ga</b> Masura) doworongi gosanus or g	<u>عدمة المحدودة المحدومة المحدودة المحدومة المحد</u>
4) RIPLANIAN 20HE AND BLICK EROSION - (* "Revel Right Laguing Domission" - <u>Prior Black W() - L R (Pre Burn) L R (Main I C ): MIDLS Ruc (4) CO-FORES こ こ - いのこそれでき (ひ-50)(3) CD-CALLA C (*) MARRAY 5 (0-50)(3) CD-CALLA</u>	<u>UNCAT - E-OCD BLUER (1147-774</u> Presseniaant fan Banki - L. R. (Per Banki 7. SWAAR (D) - <b>Xalk (</b> URAM (AR B NASTURE) ROWORCHIS (20-SMRUS OR G PARK NEW PIELD (1) - CONCONSERV. R	<u>عمد المحترية المحترية المحتوة  المحتوة الحتوة المحتوة المحتوة المحتوة المحتوة المحتوة المحتوة المحتو</u>
4) RIPLANIAN 20HE AND BLICK EROSION - (* "Revel Right Laguing Domission" - <u>Prior Black W() - L R (Pre Burn) L R (Main I C ): MIDLS Ruc (4) CO-FORES こ こ - いのこそれでき (ひ-50)(3) CD-CALLA C (*) MARRAY 5 (0-50)(3) CD-CALLA</u>	<u>UNCAT - E-OCD BLUER (1147-774</u> Presseniaant fan Banki - L. R. (Per Banki 7. SWAAR (D) - <b>Xalk (</b> URAM (AR B NASTURE) ROWORCHIS (20-SMRUS OR G PARK NEW PIELD (1) - CONCONSERV. R	<u>عمد المحترية المحترية المحتوة  المحتوة الحتوة المحتوة المحتوة المحتوة المحتوة المحتوة المحتوة المحتو</u>
4) RIPARIAN ZONE AND BANK EROSION - (e "Rover Refe Looking Contisean" <u>Provide State (Contisean</u> ) C R. (MIDE State (4) C R. (MIDE State	<u>UNCAT - E-OCD BLUER (1147-774</u> Presseniaant fan Banki - L. R. (Per Banki 7. SWAAR (D) - <b>Xalk (</b> URAM (AR B NASTURE) ROWORCHIS (20-SMRUS OR G PARK NEW PIELD (1) - CONCONSERV. R	<u>عمد المحترية المحترية المحتوة  المحتوة الحتوة المحتوة المحتوة المحتوة المحتوة المحتوة المحتوة المحتو</u>
4) RIPARIAN 2018 AND BANK EROSION - (4 "Revail Republic for manager" <u>prink Black with The Second Parager</u> L. R. (Rev Brow) L. R. (Maail I C. T. MITELS Son (4) CO-FORGER C. C. MODERAN (4) CO-FORGER C. MODERAN	<u>UNCAT - E-OCD BLUER (1147-774</u> Presseniaant fan Banki - L. R. (Per Banki 7. SWAAR (D) - <b>Xalk (</b> URAM (AR B NASTURE) ROWORCHIS (20-SMRUS OR G PARK NEW PIELD (1) - CONCONSERV. R	
4) RIPARIAN 20HE AND BANK EROSION - (r. 1994)           "Rwar Bigs Laguing Domission"           practical with"           practical with"           L R (Per Burn)         L R (Per Burn)           C T. MIDE: Star (r)         CO-FOREST           C T. MIDE: Star (r)         CO-FOREST           C T. WIDE: Star (r)         CO-FOREST           C T. WOREST         CO-FOREST <th>NYCHT - E OCD BLUER (CLARING Propertivent For Bank)   L.R. (Per Bank) T. SWAAR (D) (CLARING CALU ASTURE ADWORDING (CLARING CALU PARK NEW PIELD (1) (CLARING CARU PASTURE (1) (CLARING CARU</th> <td><u>езам вастом</u> NOUSTRIALION III СЕМОНЕ ОВ LITTLE (3) LS RELIXIX IIII СЕМОНЕ ОВ LITTLE (3) LS RELIXIX IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td>	NYCHT - E OCD BLUER (CLARING Propertivent For Bank)   L.R. (Per Bank) T. SWAAR (D) (CLARING CALU ASTURE ADWORDING (CLARING CALU PARK NEW PIELD (1) (CLARING CARU PASTURE (1) (CLARING CARU	<u>езам вастом</u> NOUSTRIALION III СЕМОНЕ ОВ LITTLE (3) LS RELIXIX IIII СЕМОНЕ ОВ LITTLE (3) LS RELIXIX IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
4) RIPARIAN 2018 AND BANK EROSION - (4 "Revail Republic for manager" <u>prink Black with The Second Parager</u> L. R. (Rev Brow) L. R. (Maail I C. T. MITELS Son (4) CO-FORGER C. C. MODERAN (4) CO-FORGER C. MODERAN	2002/FL:         5:000 BLUER (1) ALTON           Pressey Joan ( Ber Ank)   L R (Per Berd)           7:         500/2000 BLUER (1)           200/2000 BLUER (1)         200/2000 BLUER (1)	
4) RIPARIAN 2018 AND BANCK EROSION - (4 "Rever Right Louing Domission" <u>prink Bank WITT</u> L R (Per Bank) C T: MITS: Son (4) C T: MITS: Son (4) C T: GRY NARAON 1-5m (1) C T: GRY NARAON 1-5m (1) C T: MONE C T: MONE	VACAT:         5. OCD PL BAT CLAR TO           Pressening for Banki L. R. (Per Berd)         X000000000000000000000000000000000000	2327 2305724           NOUSTMALIAI II CUMONE OR LITTLE [3]           10 ARUDIZI II CUMONE OR LITTLE [3]           10 ARUDIZI II CUMONE OR LITTLE [3]           11 ARUDIZI II CUMONE OR LITTLE [3]           11 ARUDIZI II CUMONE OR LITTLE [3]           11 ARUDIZI II CUMONE OR LITTLE [3]           11 ARUDIZI II CUMONE OR LITTLE [3]           11 ARUDIZI II CUMONE OR LITTLE [3]           11 ARUDIZI II CUMONE OR LITTLE [3]           12 ARUDIZI II CUMONE OR LITTLE [3]           13 ARUDIZI II CUMONE OR LITTLE [3]           14 ARUDIZI II CUMONE OR LITTLE [3]           14 ARUDIZI II CUMONE OR LITTLE [3]           15 ARUDIZI II CUMONE OR LITTLE [3]           16 ARUDIZI II CUMONE OR LITTLE [3]           17 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]           18 ARUDIZI II CUMONE OR LITTLE [3]      <
4) RIPLANIAH ZOHE AND BLICK EROSKON - (#           "Rwar Right Laguing Domission"           Place Laguing Domission"           Place Laguing Domission"           C :: ANDER Societ           C : C : ANDER Societ           POOL CLIDE AND ANFLERNIK CUALITY           Mar : Gentla (D : Societ           Station (b)         [Checket I]	0000211         5.0000         00000         00000           Presserings         8.0000         00000         00000         00000         00000         00000         00000         00000         00000         000000         0000000         0000000000         000000000000000000000000000000000000	23227 2305120           NOUSTHALIOI DI DIMONE OR LITTLE [3]           10 ARUQUE OR LITTLE [3]           11 ARUQUE OR LITTLE [3]           12 ARUQUE OR LITTLE [3]
4): RIPARIAN 20HE AND BANCK EROSION - (#           "Rowe Right Loging Comparative"           prakelish with the comparative           COMPARIANCE           COMPARian State           COMPARIANCE	11         Construction           11         Construction           12         Construction           13         Construction           14         Construction           15         Construction           15         Construction           16         Construction           17         Construction           18         Construction           19         Construction           10         Construction           11         (Construction           11         Construction	
4); RIPARIAN 20HE AND BANCK EROSION - (#           *Rwar Right Loging Domission:           prink Bank with the second secon	ONCOMP.         E. OCO. P. UNICIJALINA           Presseptivani, P. Banki, L. R. (Per Bank)         7. SWAMP (D)           7. SWAMP (D)         SMECUREAM CAN           PARK, VEW PREUD (T)         CD-CANEDARK, CAN           D PART, VEW PREUD (T)         CD-CANEDARK, CAN           START, START, START, CAN         CO-CANEDARK, CAN           START, START, CAN         CO-CAN           START, START, START, CAN         CO-CAN	
4) RIPARIAN 20HE AND BANK EROSION - (*           "Rwar Right Lapling Domission"           practitation (*)	ONCOMP.         E. OCO. P. UNICIJALINA           Presseptivani, P. Banki, L. R. (Per Bank)         7. SWAMP (D)           7. SWAMP (D)         SMECUREAM CAN           PARK, VEW PREUD (T)         CD-CANEDARK, CAN           D PART, VEW PREUD (T)         CD-CANEDARK, CAN           START, START, START, CAN         CO-CANEDARK, CAN           START, START, CAN         CO-CAN           START, START, START, CAN         CO-CAN	
4) RIPLANIAN ZONE AND BANCK EROSKON - (#           "Rever Right Lagring Dominanzan"           Dia Glassi W()	Over at the second of	
4) RIPARIAN 20HE AND BANK EROSION - (*           "Rwar Right Lapling Domission"           practitation (*)	Over at the second of	Валит ЕРОСТОМ           NOUSTRIALIZI II СОМОЧЕ ОВ КОТСЕ [3]           СР ЛЕСОЕЗАТЕ, 2]           КОЛОСЕЗАТЕ, 2]           КОЛОСЕЗАТЕ, 2]           КОЛОСЕЗАТЕ, 2]           СОЛОСЕЗАТЕ, 2]           РООС:           В           КОЛОСЕЗАТЕ, 2]           РООС:           В           КОЛОСЕЗАТЕ, 2]           РООС:           В           КОЛОСЕЗАТЕ, 2]           В
4) RIPARIAN ZONE AND BANCK EROSION - (#           "Rwar Right Louing Domission"           213 (2130) WTT1           214 (2140)	Over at the second of	ΔΑΝΥ ΕΡΟΣΙΖΑ           NOUSTRULIA         Ο ΟΜΟΝΕ ΟΡ ΙΠΤΤΕΙ [3]           10 ΛΕΥΔΙΑ         Ο ΟΜΟΟΕΖΑΤΕΙ [2]           11 ΔΟΔΕΙ ΕΛΥΥ ΟΛ ΣΕΥΕΠΕΙΝ         Ε           ΝΟΛΟΕΛΟ ΕΛΟΓΙΑ         Ε           ΝΟΛΟΕΛΟΕΛΟ ΕΛΟΓΙΑ         Ε           ΝΟΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕΛΟΕ
4) RIPARIAN 20HE AND BANK EROSION - (*         "Rwar Right Loging Domission"         Dia Glash W(T1)       EEC SICHYM         L R (Pre Burn)       L R (Meal I         C T. MIDES SUR (4)       CO-FORESSIC         C T. MORESSIC       CO-FORESSIC         MAR AND T-SWE (1)       MIDESSIC         C T. MORESSIC       CO-FORESSIC         C T. MORESSIC       CO-FORESSIC         D T. M. (1)       CO-FORESSIC         D T. M. (2)       CO-FORESSIC         D T. M. (3)       CO-FORESSIC         CO-FORESSIC       CO-FORESSIC	ONCOME         E. OCO         D. M.	ΔΑΛΥ ΕΡΟΣΤΖΑ           NOUSTRULIA         Ο ΟΜΟΝΕ ΟΡ ΙΠΤΤΕΕ [3]           10 ΛΕΥΔΙΧ         Ο ΟΜΟΘΕΆΑΤΕ,[2]           LLAGE [1]         Ο ΟΜΟΘΕΆΑΤΕ,[2]           LLAGE [1]         Ο ΟΜΟΘΕΆΑΤΕ,[2]           LLAGE [1]         Ο ΟΜΟΘΕΆΑΤΕ,[2]           LLAGE [1]         Ο ΟΜΟΘΕΆΑΤΕ,[2]           ΔΟΛΟΓΑΛΟΥ ΟΛΟΥ         ΡΟΟΙ.:           ΔΟΛΟΓΕΛΙΝΟΝ         Ε           ΝΟ «ΕΟΘΙΕΣ!!!         Ο ΝΟ ΡΟΟΙ.:           Ο «ΕΟΘΙΕΣ!!!         Ε           ΠΟ «ΕΟΘΙΕΣ!!!         Ο ΝΟ ΡΟΟΙ.:           Ο «ΕΟΘΙΕΣ!!!         Ε           ΠΕΡΓΙ.Ε:         Α           ΡΙΓΕΛ.Ε:         Α           ΡΙΓΕΛ.Ε:         Α
4) RIPARIAN ZONE AND BANCK EROSION - (#           *Rows Right Lapling Compariant           pink Black w(t) = 1           L R (## 8km)           L R (## 8km)           C 1: MIDEs Size (#)           C 2: MIDES Size (#)	ONCOMP.         E. OCO. PL. UNICALIZATION           Pressequent, Par. Anthill, L. R. (Par. Band)         Jail (J. Raman, CA. B. J. State)           7. SWAAR (D)         Jail (J. Raman, CA. B. J. State)         Jail (J. Raman, CA. B. J. State)           7. SWAAR (D)         Jail (J. Raman, CA. B. J. State)         CA. CONSERV.         CO. J. State)           PARK, VEW PIELD (1)         CO. J. State)         CO. J. State)         CO. J. State)         CO. J. State)           ON DOM         CO. Marine, CO. M. State)         CO. J. State)         CO. J. State)         CO. J. State)           ON DOM         CO. Marine, CO. M. State)         CO. J. State)         CO. J. State)         CO. J. State)           ON DOM         CO. J. State)         CO. J. State)         CO. J. State)         CO. J. State)           ON DOM         CO. J. State)         CO. J. State)         CO. J. State)         CO. J. State)           ON DOM         CO. J. State)         CO. J. State)         CO. J. State)         CO. J. State)           State)         CO. J. State)         CO. J. State)         CO. J. State)         CO. J. State)           State)         CO. J. State)         CO. J. State)         CO. J. State)         CO. J. State)           State)         CO. J. State)         CO. J. State)         CO. J. State)         CO. St	
4): RIPLARIAN ZONE AND BANCK EROSION - (#         "Rowa Right Loging Domission"         Disk Black W(T)	UNCAT         E. OCO PLEMENTARY           Pressentant Partal         L. R. (Per Bank)           7. SWAAP ()         JOHZURBAN CALL           7. SWAAP ()         CO-CONSERV. 7           0 PASTURE (1)         CO-CONSERV. 7           0 PASTURE (1)         CO-MENNECORE           0 PASTURE (1) <td>BANY EPOSIZA           NOUSTRIALIZI DI CHRONE OR LITTLE [3]           LO REUDIZI DI CHRONE OR LITTLE [3]           LO REUDIZI DI CHRONE OR LITTLE [3]           LORDE NI DI CHRONE OR LITTLE [3]           MORTE CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTERATIVE (1)           DI NICERSII           DI NICERSII           DI NICERSII           NITERTENTIENT[3]           RIFFLE:           PITTERSIYE (1)           DI NOTESS           QUITERSIYE (1)</td>	BANY EPOSIZA           NOUSTRIALIZI DI CHRONE OR LITTLE [3]           LO REUDIZI DI CHRONE OR LITTLE [3]           LO REUDIZI DI CHRONE OR LITTLE [3]           LORDE NI DI CHRONE OR LITTLE [3]           MORTE CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTER CURRENT VE CONTY           NOTERATIVE (1)           DI NICERSII           DI NICERSII           DI NICERSII           NITERTENTIENT[3]           RIFFLE:           PITTERSIYE (1)           DI NOTESS           QUITERSIYE (1)
4) RIPARIAN 20HE AND BANK EROSION - (#         *Rwar Right Loging Domission:         prix Bank W(T***)         L R (Per Bank)         C T: MIDE: Son (4)         C MIDE: MID AUFRICATIVI CUALITY         MAR OFFTA: (5hrds (1)         C AL-3/m (2)         D AL-3/m (2)         D AL-3/m (2)         MIDE: AND MIDE: (7)         MIDE: MIDE: (7)         MIDE: MIDE: (7)         MIDE: MIDE: (7)         MIDE: MIDE: (7)         MIDE: (7)         MIDE: (7)	Overalization         Control of the control of t	ΔΑΛΥ ΕΡΟΣΙΖΑ           NOUSTRIALIZI O CHIONE OF LITTLE [3]           LO RELOXIZI O CHIONE OF LITTLE [3]           MORE CHINE OF LITTLE [3]           MORE CHINE OF LET OF CONTY           NO EDDIES[1]           D'ANCERS[1]
4) RIPARIAN 20HE AND BANK EROSION - (*         *Rwar Right Loging Domission***         Dia Glash W(T***)       EEC SICHYM**         L R (Pre Burn)       L R (Mail I         C C* MIDEs Sur. (4)       CO-FORES         C C* MARACH 5 100 (2)       CO-FORES         C C* MARACH 7 MIFFLERMIN CUALITY       MAR 000 1-5m (1)         MAR 000 110 (1)       C*POCL WIDTH -         D 2 40 (1)       C*POCL WIDTH -         D 4 40 (2)       C*POCL WIDTH -         D 4 40 (1)       C*POCL WIDTH -         D 40 (10)       C*POCL WIDTH -         C 40 (10)       C*POCL WIDTH -         C 40 (10)       C*POCL WIDTH -         C 40 (10)       C*POCL WIDTH -         C 4	UNCAT         E. OCO PLEMENTARY           Pressentant Partal         L. R. (Per Bank)           7. SWAAP ()         JOHZURBAN CALL           7. SWAAP ()         CO-CONSERV. 7           0 PASTURE (1)         CO-CONSERV. 7           0 PASTURE (1)         CO-MENNECORE           0 PASTURE (1) <td></td>	
4) RIPARIAN 20HE AND BANK EROSION - (#         *Rwar Right Loging Domission:         prix Bank W(T***)         L R (Per Bank)         C T: MIDE: Son (4)         C MIDE: MID AUFRICATIVI CUALITY         MAR OFFTA: (5hrds (1)         C AL-3/m (2)         D AL-3/m (2)         D AL-3/m (2)         MIDE: AND MIDE: (7)         MIDE: MIDE: (7)         MIDE: MIDE: (7)         MIDE: MIDE: (7)         MIDE: MIDE: (7)         MIDE: (7)         MIDE: (7)	UNCAT         E. OCO PLEMENTARY           Pressentant Partal         L. R. (Per Bank)           7. SWAAP ()         JOHZURBAN CALL           7. SWAAP ()         CO-CONSERV. 7           0 PASTURE (1)         CO-CONSERV. 7           0 PASTURE (1)         CO-MENNECORE           0 PASTURE (1) <td>ΔΑΛΥ ΕΡΟΣΙΖΑ           NOUSTRIALIZI O CHIONE OF LITTLE [3]           LO RELOXIZI O CHIONE OF LITTLE [3]           MORE CHINE OF LITTLE [3]           MORE CHINE OF LET OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF CONTY</td>	ΔΑΛΥ ΕΡΟΣΙΖΑ           NOUSTRIALIZI O CHIONE OF LITTLE [3]           LO RELOXIZI O CHIONE OF LITTLE [3]           MORE CHINE OF LITTLE [3]           MORE CHINE OF LET OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF CONTY
4) RIPARIAN 20HE AND BANK EROSION - (*         *Rwar Right Loging Domission***         Dia Glash W(T***)       EEC SICHYM**         L R (Pre Burn)       L R (Mail I         C C* MIDEs Sur. (4)       CO-FORES         C C* MARACH 5 100 (2)       CO-FORES         C C* MARACH 7 MIFFLERMIN CUALITY       MAR 000 1-5m (1)         MAR 000 110 (1)       C*POCL WIDTH -         D 2 40 (1)       C*POCL WIDTH -         D 4 40 (2)       C*POCL WIDTH -         D 4 40 (1)       C*POCL WIDTH -         D 40 (10)       C*POCL WIDTH -         C 40 (10)       C*POCL WIDTH -         C 40 (10)       C*POCL WIDTH -         C 40 (10)       C*POCL WIDTH -         C 4	UNCAT         E. OCO PLEMENTARY           Pressentant Partal         L. R. (Per Bank)           7. SWAAP ()         JOHZURBAN CALL           7. SWAAP ()         CO-CONSERV. 7           0 PASTURE (1)         CO-CONSERV. 7           0 PASTURE (1)         CO-MENNECORE           0 PASTURE (1) <td>ΔΑΛΥ ΕΡΟΣΙΖΑ           NOUSTRIALIZI O CHIONE OF LITTLE [3]           LO RELOXIZI O CHIONE OF LITTLE [3]           MORE CHINE OF LITTLE [3]           MORE CHINE OF LET OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF CONTY</td>	ΔΑΛΥ ΕΡΟΣΙΖΑ           NOUSTRIALIZI O CHIONE OF LITTLE [3]           LO RELOXIZI O CHIONE OF LITTLE [3]           MORE CHINE OF LITTLE [3]           MORE CHINE OF LET OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF LITTLE OF CONTY           NO REDOLE OF CONTY

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PC-5-5/12/00

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Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographicat and physical

characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

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<sup>16</sup> (уыт Right Locaing Downssiagn <u> </u>	- <u>ВРОБОЧИЛИОНТ (5,000 № 444 О.44 т.)</u> L R (Area Stredominant Per Bark) L R (Area Sank) ФСРОВСТ, билане (р) ОСОСРЕН РАЗПЛАНИАСТОРИСТВИЦИИ ССОСРЕН РАЗПЛАНИ ЛОКОПОРИСТВИЦИИ ( ССОСРЕН РАЗПЛАНИ ЛОКОПОРИСТВИЦИИ) ССОСРЕН РАЗПЛАНИ ПЕЦО (1) ССОСРЕН РАЗПЛАНИ ПЕЦО (1) ССОСРЕН РАЗПЛАНИ	0.0004E093.0771.5 (3)
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<sup>16</sup> (умг Ворацистар Основанара <u>2:32-2544 миртта</u> L 7 (24 Вала) C 0:4006 550 (4) C 0:4006 552 (5:10-53 (5) C 0:404780 45-166 (2) 200-2005 87 мАЯСМ 1-52 (1) D 0:4005(9) С 0:40475(2) РОСИССТВО АНД ЯКАССТВИИ	EBECSIONER (S. DOOD X. AMI OVALITY EL L. R. GARIS Fredominant Per Baris) L. A. (Per Bank) C. COCAEN ASSTURE (ROWORDFIELD ON URBAN OR UNDERTROUND O COCAEN ASSTURE (ROWORDFIELD ON STRUCTURE) D. RESID, PARKINEW FIELD (1) C. COCAENSERS, NEW FIEL	POOL:
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<sup>16</sup> (var Bigta Locana Downsaaga <u>1: a 2 = NAN Wing Ta</u> L 7: [Per Bans] C 3: - MCDE San (4) C 3: - MCE San (4) C	28000000000000000000000000000000000000	
" <sup>4</sup> руат Right Looming Doministry <u> </u>	28/05/04/27/2016         5,7000         24/41/2016         24/4	ил саланы О-моне он (ПТ. 5 (4) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) РООС: [] УБОСТУ ПАЦ(-1) [] Ф. КОТООЦР]
<sup>1</sup> δρωτ Right Looming Doministry (Comparison)           1. 3. [Per Bant)           C. 3. [Per Bant)           C. 3. (Per Bant)	EPETTOPYP//MORT + 5, 700 P, 444 (0.40 Th)         E2           L R. (Herk Prodominant Per Back)         L R (Per Bank)           EPETTOPYP//MORT + 5, 700 P, 444 (0.40 Th)         E2           E. R. (Herk Prodominant Per Back)         L R (Per Bank)           EDE FOREST, Swame (p)         DDURSAN CA MOUSTRAL(S)           EDE RESID, PARKINEW FIELD (1)         CD-CONSERV. TULACE (1)           EDE RESID, PARKINEY         EDE RESID           EDE RESID, PARKINEW FIELD (1)         CD-CONSERV. TULACE (1)           EDE RESID         FIELD (1)           EDE RESID         EDE RESID           EDE RESID         FIELD (1)           EDE RESID         EDE RESID           EDE RESID </td <td>ил саланы О-моне он (ПТ. 5 (4) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) РООС: [] УБОСТУ ПАЦ(-1) [] Ф. КОТООЦР]</td>	ил саланы О-моне он (ПТ. 5 (4) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) Фисс 27АТЕ (2) РООС: [] УБОСТУ ПАЦ(-1) [] Ф. КОТООЦР]
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<sup>1</sup> δρωτ Right Looming Doministry (Comparison)           1. 3. [Per Bant)           C. 3. [Per Bant)           C. 3. (Per Bant)	EPETTOPYP//MORT + 5, 700 P, 444 (0.40 Th)         E2           L R. (Herk Prodominant Per Back)         L R (Per Bank)           EPETTOPYP//MORT + 5, 700 P, 444 (0.40 Th)         E2           E. R. (Herk Prodominant Per Back)         L R (Per Bank)           EDE FOREST, Swame (p)         DDURSAN CA MOUSTRAL(S)           EDE RESID, PARKINEW FIELD (1)         CD-CONSERV. TULACE (1)           EDE RESID, PARKINEY         EDE RESID           EDE RESID, PARKINEW FIELD (1)         CD-CONSERV. TULACE (1)           EDE RESID         FIELD (1)           EDE RESID         EDE RESID           EDE RESID         FIELD (1)           EDE RESID         EDE RESID           EDE RESID </td <td>С</td>	С
<sup>1</sup> Архиг Rigts Locard Domination <u>1. 3. 2004 High Locard</u> Domination L. 3. [Per Bant] C. 3. 44006 540 (4) C. 3. 44006 5415 (1653 (2)) D. 3. 44006 5415 (1653 (2)) D. 3. 44006 5416 (2) D. 3. 44006 5416 (2) D. 3. 44006 5416 (2) D. 3. 44006 5416 (2) D. 3. 4400 (2) D. 4. 4400	28/03/2014/2014/2014/2014         51/2014/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014         22/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014/2014         22/2014/2014/2014/2014/2014/2014/2014/20	ил селотон О-ноле он (ПТ, Е (3) Мисс алате, 2) Онеалуу ОА баувее(1) ув. солту Пац(-1) Техт(-2) ВИРАЦЕ:
<sup>1</sup> Архиг Ворта царана (Остана ула и инализати инализати инализати инализати инализати инализати и ализати и инализати и инализати инализати инализати	ESCENDIVENTIALINE PER BARK)         L R. (Her Stredombackie Per Bark)	
<sup>14</sup> рок Вода целана Основанал <u>1. а. (24) Малан</u> U. 7. (24) Малан C. 3. (24) Sana C. 3. (25) Sana C. 3. (25) Sana C. 3. (25) Sana C. 3. (25) Sana (25) Sana	28000000000000000000000000000000000000	
<sup>1</sup> Архиг Кура (2000) Основандо <u>С. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.</u>	EBCTONER/ MORT - 5, TOO P, 414 (O/A)         EBCTONER/ MORT - 5, TOO P	
<sup>1</sup> Δρωτ Right Looming Doministry Might           1. A [Per Bant]           0. 3. (Per Bant]           0. 4. (Per Bant] <tr< td=""><td>EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY + 5, TOO P, 4141 (2010)</td><td></td></tr<>	EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY + 5, TOO P, 4141 (2010)	
<sup>1</sup> Архиг Кура (2000) Основандо <u>С. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.</u>	EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY PY, MORT + 5, TOO P, 4141 (2010)         EBECTYDY + 5, TOO P, 4141 (2010)	
<sup>1</sup> Δρωτ Right Looming Doministry Might           1. A [Per Bant]           0. 3. (Per Bant]           0. 4. (Per Bant] <tr< td=""><td>EBECTYDYUP/WORT + 5, TOO P, 4141 (24,017)         EA           L R. (Hett Prodominant Per Bank)         L R (Per Bank)         EA (Per Bank)           L R. (Hett Prodominant Per Bank)         DOURSAN CA MOUSTRAL(S)         DOURSAN CA MOUSTRAL(S)         DOURSAN CA MOUSTRAL(S)           C DOREST, SWAMP [C]         DOURSAN CA MOUSTRAL(S)         DOURSAN</td><td>О-МОНЕ ОВ (ПТ. Е [3]           ФИССЕРАТЕ[2]           ФИССЕРАТЕ[2]           ОНЕДАЧУ ОВ БЕРЕВЕ[1]           РООС:           РООС</td></tr<>	EBECTYDYUP/WORT + 5, TOO P, 4141 (24,017)         EA           L R. (Hett Prodominant Per Bank)         L R (Per Bank)         EA (Per Bank)           L R. (Hett Prodominant Per Bank)         DOURSAN CA MOUSTRAL(S)         DOURSAN CA MOUSTRAL(S)         DOURSAN CA MOUSTRAL(S)           C DOREST, SWAMP [C]         DOURSAN CA MOUSTRAL(S)         DOURSAN	О-МОНЕ ОВ (ПТ. Е [3]           ФИССЕРАТЕ[2]           ФИССЕРАТЕ[2]           ОНЕДАЧУ ОВ БЕРЕВЕ[1]           РООС:           РООС
<sup>1</sup> Архи Вора целена Основани и <u>палени и и проти</u> Ц. Я. (Рин Вала) С. Э. «СССЕ бал (4) С. «СССЕ бал (4)	EBETSTOPPEN, MORET + 5, TOO P, 4141 (2010)         EBETSTOPPEN, MORET + 5, TOO P, 4141 (2010)<	
<sup>1</sup> Архи Вора целена Основания	EBECTYDYUP/WORT + 5, TOO P, 4141 (24,017)         EA           L R. (Hett Prodominant Per Bank)         L R (Per Bank)         EA (Per Bank)           L R. (Hett Prodominant Per Bank)         DOURSAN CA MOUSTRAL(S)         DOURSAN CA MOUSTRAL(S)         DOURSAN CA MOUSTRAL(S)           C DOREST, SWAMP [C]         DOURSAN CA MOUSTRAL(S)         DOURSAN	

C Pròcequie No. Revoluer No.	)A Manwai (6th Lipdare) – Fran <u>WQPA-SWS-1</u> £	i – Seplemper 30, 1989 Date Işşund Date Ettechiya	9 <u>-10-99</u> 9-30-99	PC-4 5/14/00 DuP-3 unifer
Figure V-4-5. Front side of the Obi characteristics of fish samp	o EPA Sile Description Sho bling locations. This is used	eet for evaluating the		Sampling tak

characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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		ARDPAN (0) D. ST. T.NORMA		E (* 1)
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		A TANKA	E[-1]C-MODERAN	
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Z DUSTREAM COVER	•			~
I'ms (Chuck as That App	ita i		WHE DALT Dra et	
C-INCERCIT BANKS [1]	PROUS [2] D. CILLSCOWS [1]	Check 2 and		
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4] RIPA Riam ZONE AND BALK, ENOSION - (sheet)           River Aufte Lesking Ocentpream"           River Aufte Lesking Ocentpream"           River Aufte Lesking Ocentpream"           River Bunkl         L A. (Mess Brindow           D.D. WODE-Som [4]         Der ORSS1, SWI           D.D. WODE-Som [4]         DOC (ADSS1, ADSS1, SWI           COMMENTS.         DOC (ADSS1, ADSS1, SWI           D.D. NONE[0]         DOC (ADSS1, ADSS1, A	Geell toos per lamb - check 2 ind           5 - 5 - 550 et jun (2011) TY           Trivial Per Bank)         L R (Per Bank)           AME (2)         C5-URBAY, C           CMARTING         C5-URBAY, C           CMARTING         C5-URBAY, C           Y         20044040000000000000000000000000000000	ΑΥΕΡΑΚΕΕ         ΕΛΙΝΟΙ ΣΤΡΟΙ (Ο)         ΕΛΙΝΟΙ (Ο)         ΕΛ		]
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4] RIPA Riam ZONE AND BARK (ROSION - (sheet)           Row Agis Lesking Development           D.D. WDES-Son [4]           D.D. RESE, Addy           G.D. NORE[0]           C.D. MAROW S. Non [1]           D.D. NORE[0]           COMMENTS:           POOLGUDD AND RUFFLEXION GUALITY           MJJ. CESTA: (Check 1)           D.S. NO[6]	Geell toos per lamb - check 2 ind           2 - 5 000 PL bin (2001 TV)           Triteril Per Bank)         L R (Per Bank)           AMP (R)         CO-URDAL-CO           CO-URDAL-CO         CO-URDAL-CO	АЧЕРАСЯ		]
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<u>9-30-84</u>

Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Svaluation Index (QHE).

WOPA-SWS-2

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Procedure No.

Revision No.

CA Manue (6th Opdare) - Fran - September 30, 1985 - -

Date Issued

Date Effective

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(ABAARIAN ZONE AHO BAAR Afar Aight <u>Lociong Comestan</u> <u>Aran Aight Not Com</u> (A Jaw Bana) C C WIDE Sim (4)	CROSION - (check CHE baz per bank or check 2 and at UALCE per bank)     RIPARIAN: <u>ERCSION/BUNC 62 - 0.000 PLANIC 101 TY                                    </u>
( AGRARIAN ZONE AND BANK Aper Ayst Locard Dowleyean <u>Area an un weiter</u> ( A 194 bana) C.C. WIDEs Sam (4) C.C. WIDEs Sam (4)	C EROSION - (sheek OHE bas per bank or sheek 2 (re) AV (Ratif per bank)         RIPARIAN:           n*         630 Story Struct (2 - 1) 2000 Provide (2 1) 100         64 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B [Per Bank)         64 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B [Per Bank)         60 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B [Per Bank)         0 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B (Per Bank)         0 NYL EROSION           1, A [Most Presembank (2 F denk]         0 DYL PRESM (2 NYL)(2)         0 DYL PRESM (2 NYL)(2)           1, A [Most Presembank (2 F denk]         0 DYL PRESM (2 NYL)(2)         0 DYL PRESM (2 NYL)(2)           1, A [Most Presembank (2 F denk]         0 DYL PRESM (2 NYL)(2)         0 DYL PRESM (2 NYL)(2)
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AGRARIAN ZONE AND BANG Aver Rugt (Loston) (Longaria) (L.R. (Der Bang) (L.R. (Der Bang) (L.R. (Der Bang) (L.S. (MODE Sam (4) (L.S. (MODE Sam (4) (L.S. (Der Sam (4)) (L.S. (Der Sam (4)) (L	C EROSION - (sheek OHE bas per bank or sheek 2 (re) AV (Ratif per bank)         RIPARIAN:           n*         630 Story Struct (2 - 1) 2000 Provide (2 1) 100         64 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B [Per Bank)         64 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B [Per Bank)         60 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B [Per Bank)         0 NYL EROSION           1, A [Most Presembank (2 F denk]         1, B (Per Bank)         0 NYL EROSION           1, A [Most Presembank (2 F denk]         0 DYL PRESM (2 NYL)(2)         0 DYL PRESM (2 NYL)(2)           1, A [Most Presembank (2 F denk]         0 DYL PRESM (2 NYL)(2)         0 DYL PRESM (2 NYL)(2)           1, A [Most Presembank (2 F denk]         0 DYL PRESM (2 NYL)(2)         0 DYL PRESM (2 NYL)(2)
AMPARIAN ZONE AND BANK Aver Augt (Content) (CA (Per Bank) CC (MIDE Sam (4) CC (MIDE SAM (4)) CC (MIDE SAM (4)	K. EROSION - (check Offer back or check 2 and AV DALLE per back)     RIPARIAN:       K. EROSION - (check Offer back or check 2 and AV DALLE per back)     RIPARIAN:       K. EROSION - (check Offer back or check 2 and AV DALLE per back)     SALVE EROSION       1. A. [Most Presembane Per Back]     L. R. [Per Back)       MAR FOREST, SWAAR (C)     DOORSAN OR NOUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN, ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN, ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN, ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN, ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN, ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OTTLE (A)       DOORSAN, ASS'URE ROMOROGICI OCONSENT, DUSTRULICI O. DOWNED OR OFTLE
ABARLAN ZONE AHO BANG Anar Algit Latara (Comisiver Rest and Michae C. R. (Per Bang) C. T. (MIDE) Sim (4) C. T. (MIDE) Sim (4) C. T. (MIDE) Sim (4) C. T. (MIDE) Sim (4) C. T. (MIDE) Sim (5) C. T. (MIDE) D. (MIDE) C. (MIDE) C. (MIDE)	C FROSION - (shock CHE bas per bank or check 2 (re) AY DALLE per bank) RIPARIAN: SALVE EROSION 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most Presembank Per Bank] L R (Per Bank) 1. A [Most P
AGRARIAN ZONE AND BANA Aver Aught Location Domisively (A per bana) (C average bana) (C aver	C EROSION - (check OHE bas per bank or check 2 (rel AY DALLE per bank) RIPARIAN: SROSION - (check OHE bas per bank or check 2 (rel AY DALLE per bank) RIPARIAN: SROSION - (check OHE bas per bank or check 2 (rel AY DALLE per bank) 1 A [Most Presembanc Per Bank] L R [Per Bank) DO-POREST, SWAMP (C) DO-NONE OF UTTLE (SI DO-POREST, SWAMP (C) DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE OR ULT RE-D[2] DO-NONE OF UTTLE (SI DO-REST, PARCHEW RED (SI DO-STANLE (SI DO-REST, PARCHEW RED (SI DO-STANLE (SI DO-NONE OF UTTLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE (SI DO-STANLE
AGRARIAN ZONE AND BANA Aver Aught Location Domisively (A per bana) (C average bana) (C aver	CARLENDER OFFENDER OFFENDER OF SAME AN EARCH 2 (MILANE (MILANE))     CONTRACT OF CONTACT OF CONTRACT OF CONTA
AMPARIAN ZONE AND BANG Aver Right Looders Contestant (1.9.12 million (2) (2.7.4006 start (2) (2.7.4006 start (2) (2.7.4006 start (2) (2.7.4006 start (2) (3.7.4006 start (	CONSULTY     CONSULT
AMARIAN ZONE AND BANG AMAR Aught London Domisystan AMAR Aught London Domisystan (A Par Bana) C C - WIDE Sam (4) C C - WID	C EROSION - (sheck GHE bas per bank or check 2 (rel AY DALLE per bank)       RIPARIAN:         SECSION - (sheck GHE bas per bank or check 2 (rel AY DALLE per bank)       RIPARIAN:         SECSION - (sheck GHE bas per bank or check 2 (rel AY DALLE per bank)       SAVE EROSION         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       L R [Per Bank)         1.A [Most Presembant Per dank]       D CORSET         1.A [Most Per denk]       D CORSET         1.B [DOR RESD, PARK, NEW RED [1]       D CORSET         1.A [Cores Ant That Apply]       POOL:         1.A [Cores Ant That Apply]       POOLSES1
ALPARIAN ZONE AND BANG           Aver Augt (Lotter) Demission           Aver Augt (Lotter) Demission           (A.P. Aver Aver Aver Aver Aver Aver Aver Aver	CEROSION - (sheek OHE bas per bank or check 2 (rel AY DALLE per bank)         RIPARIAN:           SALVE EBOSION         (Sheek OHE bas per bank or check 2 (rel AY DALLE per bank)         RIPARIAN:           SALVE EBOSION         1 A [Most Presembane Per dank]         L R [Per Bank)         SALVE EBOSION           1 A [Most Presembane Per dank]         L R [Per Bank)         SALVE EBOSION           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OR UTTLE (3)           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OR UTTLE (3)           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OR UTTLE (3)           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OR UTTLE (3)           1 DO-REST, SWAM (2)         DO-NONE OR OR TALE (3)         DO-NONE OR UTTLE (3)           1 DO-REST, PARK, NEW RELD (1)         DO-ONESTRUCTION (2)         DO-MOST (3)           1 DO-REST, PARK, NEW RELD (1)         DO-ONESTRUCTION (2)         POOL:           1 DO-REST, PARK, NEW RELD (1)         DO-MOST (2)         POOL:           1 DO-ADD-OST         (Check All That Apply)         POOL:           2002 WIDTH - REFLE WODH (2)         O'-ADARDAL'II (2)         O'-NOTRESTIAL'II (3)           2002 WIDTH - REFLE WIDTH (1)         O'-ADARDAL'II (2)         O'-NOTRESTIAL'II (3)
ALPARIAN ZONE AND BANG           Aver Augt (Lotter) Demission           Aver Augt (Lotter) Demission           Alparities           (Alparities)           (Alparities)     <	CEROSION - (sheck GHE bas per bank or check 2 (rel AY DALLE per bank)         RIPARIAN:           SECSION - (sheck GHE bas per bank or check 2 (rel AY DALLE per bank)         RIPARIAN:           SECSION PROPERT, SECSION         1.4 [Most Presembant Per dank]         R (PS Bank)           1.4 [Most Presembant Per dank]         R (PS Bank)         D. ANY EBOSION           1.4 [Most Presembant Per dank]         R (PS Bank)         D. ANY EBOSION           1.4 [Most Presembant Per dank]         R (PS Bank)         D. ANY EBOSION           1.5 (PARIAN)         D. D. ANY EBOSION         D. ANY EBOSION           1.6 [Most Presembant Per dank]         L R (PY Bank)         D. ANY EBOSION           1.6 [Most Presembant Per dank]         L R (PY Bank)         D. ANY EBOSION           1.6 [Most Presembant Per dank]         D. D. CONSERV. FULACE [1]         D. ANY EBOSION           1.6 [DOR RESERVERTHE CONSTRUCTION [0]         D. D. MINGCONSTRUCTION [0]         POOL:           1.6 [CARE ANTINE APPHY]         CONSERVERTHE CONSTRUCTION [0]         POOL:           1.6 [CARE ANTINE APPHY]         CONSERVERTHE CONSTRUCTION [0]         POOL:
ABARIAN ZONE AND BANA           Aper Rept (control Control Co	CEROSION - (sheek OHE bas per bank or check 2 (rel AY DALLE per bank)         RIPARIAN:           SALVE EBOSION         (Sheek OHE bas per bank or check 2 (rel AY DALLE per bank)         RIPARIAN:           SALVE EBOSION         1 A [Most Presembane Per dank]         L R [Per Bank)         SALVE EBOSION           1 A [Most Presembane Per dank]         L R [Per Bank)         SALVE EBOSION           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OF UTTLE (3)           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OF UTTLE (3)           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OF UTTLE (3)           1 A [Most Presembane Per dank]         L R [Per Bank)         DO-NONE OF UTTLE (3)           1 DO-REST, SWAM (2)         DO-NONE OF UTTLE (3)         DO-NONE OF UTTLE (3)           1 DO-REST, PARK, NEW RELD (1)         DO-ONESTRUCTION (2)         DO-NONE OF UTTLE (3)           1 DO-REST, PARK, NEW RELD (1)         DO-ONESTRUCTION (2)         POOL:           1 DO-REST, PARK, NEW RELD (1)         DO-MONE OF UTTLE (2)         POOL:           1 DO-REST, PARK, NEW RELD (1)         DO-NONE OF UTTLE (2)         POOL:           1 DO-ADATHAE (1)         CHARAE (1)         CHARAE (1)         POOL:           1 DO-ADATHAE (2)         DO-NORE (2)         POOL:         DO
AMPARIAN ZONE AND BANG           Aver Rupt Locating Contractant           Aver Rupt Locating Contractant           Aver Rupt Locating Contractant           L R (Per Bang)           C D ANDES Son (4)           D ANDES Son (4)           D ANDES Son (4)           D ANDES Son (4)           D ANDES Son (4)           D ANDES Son (4)           D ANDES SON (3)	C EROSION - (sheek OHE bas per bank or check 2 and AV DALLE per bank)       RIPARIAN:         SROSION - (sheek OHE bas per bank or check 2 and AV DALLE per bank)       RIPARIAN:         SROSION - (sheek OHE bas per bank or check 2 and AV DALLE per bank)       SALVE EROSION         1 A [Most Presembane Per dank]       L R [Per Bank)         DO REST, SWAME (3)       DO DORBAN OR NOUSTRUCKI O DO-NONE OR UTTLE (3)         DO REST, SWAME (3)       DO DORBAN OR NOUSTRUCKI O DO-NONE OR UTTLE (3)         DO REST, SWAME (3)       DO DORBAN OR NOUSTRUCKI O DO-NONE OR UTTLE (3)         DO REST, PARK, NEW RELD (1)       DO CONSERV. (TLAGE [1])       SALVE EROSICH         DO REST, PARK, NEW RELD (1)       DO CONSERV. (TLAGE [1])       SALVE EROSICH         II) DO-FENCED PARTURE [1]       DO DOWN OF NEW RELD (1)       DO MERONESTRUCTION [0]         III) DO-FENCED PARTURE [1]       DO DOWN OF NEW RELD (1)       DO MERONESTRUCTION [0]         III) DO-FENCED PARTURE [1]       DO MININGCONSTRUCTION [0]       POOL:         III DOALTY       (Check AITTLE AND IN [1])       O'AND ARTICLE [1]       POOL:         III DOALTY       (Check AITTLE AND IN [1])       O'AND ARTICLE [1]       POOL:       POOL:         III DOALTY       (Check AITTLE AND IN [1])       O'AND ARTICLE [1]       O'AND ARTICLE [1]       POOL:       POOL:         III DOALTY       (Check AI
AMBARIAN ZONE AND BANA           Aver Rept Lowers Control Control Control Control           Aver Rept Lowers Control           Aver Rept Lowers Control           Aver Rept Lowers Control           C - MIDE Son (4)	C FROSION - (check OHE bas per bank or check 2 and AVERALE per bank)       RIPARIAN:         C CROSION - (check OHE bas per bank or check 2 and AVERALE per bank)       RIPARIAN:         C CROSION - (check OHE bas per bank or check 2 and AVERALE per bank)       SALVE EBOSION         1 A [Most Presemblance Per Gank]       L R [Per Bank)       SALVE EBOSION         1 A [Most Presemblance Per Gank]       L R [Per Bank)       SALVE EBOSION         1 A [Most Presemblance Per Gank]       L R [Per Bank)       DO-ADATE OF CTTLE (A)         1 A [Most Presemblance Per Gank]       L R [Per Bank)       DO-ADATE OF CTTLE (A)         1 A [Most Presemblance Per Gank]       L R [Per Bank)       DO-ADATE OF CTTLE (A)         1 D C Pance D Adation (P)       D DOORSAN OR MOUSTAULICI O D-ADATE OF CTTLE (A)         1 D C Pance D Adation (P)       D DOORSAN OR MOUSTAULICI O D-ADATE OF CTTLE (A)         1 D C Pance D Adation (P)       D DOORSAN OR MOUSTAULICI O D-ADATE OF CTTLE (A)         1 D C Pance D Adation (P)       D D-ADATE OF CTTLE (P)         1 D C Pance D Adation (P)       D D-MONG CONSTRUCTION (P)         1 D C Pance D Adation (P)       D D-MONG CONSTRUCTION (P)         1 D C Pance D Adation (P)       D D-MONG CONSTRUCTION (P)         1 D C Pance D Adation (P)       D D-MONG CONSTRUCTION (P)         1 D C Pance D Adation (P)       D D-MONG CONSTRUCTION (P)         1
ALBARIAN ZONE AND BANA           ALBARIAN ZONE AND DOMESTAL           ALBARIAN ZONE AND DOMESTAL           ALBARIAN ZONE AND DOMESTAL           C.C. WIDES SAM (4)           C.C. WIDES SAM	CERDSION - (check OHE bas per bank or check 2 and AVERAGE per bank)       RIPARIAN:         CERDSION - (check OHE bas per bank or check 2 and AVERAGE per bank)       RIPARIAN:         CERDSION - (check OHE bas per bank or check 2 and AVERAGE per bank)       RIPARIAN:         CERDSION - (check OHE bas per bank or check 2 and AVERAGE per bank)       RIPARIAN:         CERDSION - (check OHE bas per bank or check 2 and AVERAGE)       CENTSION         1 A (Most Presentinant Per Bank)       L R (Per Bank)         MARCONSTRUCT CE - (Check OHE CERDSION       D CHECSERATION (CHECK)         MARCONSTRUCT CE - (Check OHE CERDSION       D CHECSERATION (CHECK OHE CHECK)         MARCONSTRUCT CE - (Check OHE CERDSION       D CHECSERATION (CHECK)         MARCONSTRUCT CE - (Check OHE CERDSION       CHECKERATION (CHECK)         MARCONSTRUCT CERDSION       CHECKERATION         MARCONSTRUCT       CHECKERATION         MARONA
AMBARIAN ZONE AND BANA           Aver Rupt Locating Contracted           Aver Rupt Locating Contracted           L R (Per Bana)           C T WIDE Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)           C T WID Sam (*)	CEROSION - (sheck GHE bas per bank or check 2 (rel AV BALLE per bank)       RIPARIAN:         SECSION/RUNC (E - P. 1000 PLAND (R) ITY       SALVE EROSION         1, A [Most Presembank Per dank]       L R [Per Bank)         1, A [Most Presembank Per dank]       L R [Per Bank)         1, A [Most Presembank Per dank]       L R [Per Bank)         1, A [Most Presembank Per dank]       L R [Per Bank)         1, A [Most Presembank Per dank]       L R [Per Bank)         1, A [Most Presembank Per dank]       L R [Per Bank)         1, DORACT, ST SANA, B CR OLD RELD(1)       D ONCERATE, 2]         1, DORACT, PARK, NEW RELD(1)       D OCONSERV. RULAGE(1)         1, DORACT, PARK, SWIDTH(1)       D OCONSERV. RULAGE(1)         1, DORACT, PARK, RULAGE, PARK, PAR
(ABARIAN ZONE AND BANG Aver Augts Lowing Contractant (A Per Bang)           (C. A IPEr Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)           (D. IPER Bang)	C EROSION - (sheek OHE bas per bank or check 2 (rel AY DALLE per bank)       RIPARIAN:         SROSION - (sheek OHE bas per bank or check 2 (rel AY DALLE per bank)       RIPARIAN:         SROSION - (sheek OHE bas per bank or check 2 (rel AY DALLE per bank)       SAVE EROSION         1 A [Most Presembane Per bank]       L R [Per Bank)         DO GRAM ASTURE (C)       DO GRAM OR NOUSTRUCKI O DO ANNE OR CUTTLE (SI         DO GRAM ASTURE (C)       DO CONSERV. TRUCKED O DO ANNE OR CUTTLE (SI         DO REST, SMANK (C)       DO CONSERV. TRUCKED O DO ANNE OR CUTTLE (SI         DO REST, PARK, NEW RESD (I)       DO CONSERV. TRUCKED I)       DO MESSALARS KOWERED III (SI ANNE)         DO REST, PARK, NEW RESD (I)       DO CONSERV. TRUCKED IIII (SI ANNE)       DO MESSALARS KOWERED IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
ALPARIAN ZONE AND BAND           ALPARIAN ZONE AND DOMESTAL           ALPARIAN ZONE AND DOMESTAL           ALPARIAN ZONE AND DOMESTAL           ALPARIAN ZONE AND DOMESTAL           C THORE SAM (1)	C EROSION - (sheck GHE bas per bank or check 2 (rel AV BALLE per bank)       RIPARIAN:         SECSION 91, VIC 62 - P. 2000 P. Levic (2) ITT       SALVE EROSION         1 A [Most Presembant Per dank]       L R [Per Bank)         1 A [Most Presembant Per dank]       L R [Per Bank)         1 A [Most Presembant Per dank]       L R [Per Bank)         1 A [Most Presembant Per dank]       L R [Per Bank)         1 A [Most Presembant Per dank]       L R [Per Bank)         1 D (POLS)       D (PORSA)         1 D (POLS)       D (POLSA)         1 D (POLSA)       POOL:         1
Appen Regist Leating Downsides           Rest and WC           Rest and WC           C.F. ANDER Sam (4)	CEROSION - (sheck GHE bas per bank or check 2 (rel AVERALE per bank)       RIPARIAN:         SECSION/SUMPLY (SE - PLOTO PLANN DEAL TO CORDAN OR MOUSTRULT()       D. ADVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       SALVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       SALVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       D. D. ONE OF UTTLE (3)         1.5. [Most Presembant Per dank]       L. R. [Per Bank)       D. D. D. D. D. D. D. D. D. D. D. D. D. D
ALBARIAN ZONE AND BANA           AND RACE LODING CONSTRAINT           AND REPERTING CONSTRAINT           C. C. WIDES SAM (1)           C. S. WIDES SAM (1)           S. S. WIDES SAM (1)           S. S. WIDES SAM (1)	CEROSION - (sheek OHE bas per bank or check 2 (rel AV DALLE per bank)         RIPARIAN:           SALVE EBOSION 1.A. [Most Presentings Per dank]         L. R. [PY Bank)         SALVE EBOSICH           1.A. [Most Presentings Per dank]         L. R. [PY Bank)         SALVE EBOSICH           1.A. [Most Presentings Per dank]         L. R. [PY Bank)         SALVE EBOSICH           1.A. [Most Presentings Per dank]         L. R. [PY Bank)         SALVE EBOSICH           1.A. [Most Presentings Per dank]         L. R. [PY Bank)         D. OLADNE OR UTTLE (3)           1.D. CREST, SMANK (2)         D. DORBAN OR NOUSTRUCK)         D. DANNE OR UTTLE (3)           1.D. CREST, SMANK (2)         D. DORBAN OR NOUSTRUCK)         D. OLADNE OR UTTLE (3)           1.D. REST, PARK, NEW RESD (1)         D. DOCOMERTV. (1) OCHOCERATEL, 2)         D. MOSTRUCK)           1.D. REST, PARK, NEW RESD (1)         D. DOCOMERTV. (1) OCHOCERATEL, 2)         POOL:           1.I. DOC-FENCED FASTURE (1)         D. MOSTRUCK)         POOL:         POOL:           1.I. DOC-FENCED MASTURE (1)         OCHOCERATELLAND, 1)         OCHOCERATELLAND, 10         POOL:         POOL:           1.I. DOC-FENCED MASTURE (1)         OCHOCERATELLAND, 10         OCHOCERATELLAND, 10         OCHOCERATELLAND, 10           1.I. DOC, WIDTH - REFLE WOLDT (2)         OCHOCERATELLAND, 10         OCHOCERATELLAND, 10         OCHOCERATELLAN
ALBARIAN ZONE AND BANG           Aver Rupt Locking Contracted           Aver Rupt Locking Contracted           L R (Per Bang)           C.T. MCDE Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*)           Sam (*) </td <td>CEROSION - (sheck GHE bas per bank or check 2 (rel AVERALE per bank)       RIPARIAN:         SECSION/SUMPLY (SE - PLOTO PLANN DEAL TO CORDAN OR MOUSTRULT()       D. ADVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       SALVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       SALVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       D. D. ONE OF UTTLE (3)         1.5. [Most Presembant Per dank]       L. R. [Per Bank)       D. D. D. D. D. D. D. D. D. D. D. D. D. D</td>	CEROSION - (sheck GHE bas per bank or check 2 (rel AVERALE per bank)       RIPARIAN:         SECSION/SUMPLY (SE - PLOTO PLANN DEAL TO CORDAN OR MOUSTRULT()       D. ADVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       SALVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       SALVE EROSION         1.4. [Most Presembant Per dank]       L. R. [Per Bank)       D. D. ONE OF UTTLE (3)         1.5. [Most Presembant Per dank]       L. R. [Per Bank)       D. D. D. D. D. D. D. D. D. D. D. D. D. D

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Processie No.	WOPA-5WS-3	Date Issued	<u>9-30-89</u>
Revision No.		Date Effective	<u>8-30-89</u>

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Figure V-4-S. Front side of the Ohio SPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the Calculation of the Qualitative Habitat Evaluation Index (QHEI).



6 No. 4977

PC1       Pigeon Circ       13       6.8 (µ0)       0.03       0.22       2       0.1       19       10         PC2       Pigeon Circ       6.4 (200)       (080)       0.58       0       (050)       116       23       0.019607843       20       0       0.019607843         PC3       Pigeon Circ       16       6.3 (µ7)       0.58       0       0.051       116       23       0.019607843       20       0.19607843       20       0.19607843       20       0.19607843       20       0.19607843       20       0.19607843       20       0.19607843       20       0.19607843       11       12       0.0       <	Site	Waterbody T	axa Richi Fa	mily Biol Ratio of	Sc Ratio of EF	% Contribu E	EPT Index Ra	tio of Sł	Total Number Collected	Ratio of Scraper+1/Filterer+1	Ratio of EPT+1/Chironomidae+1	Ratio of Shredder+1/Nonshredder+1	Scrapers F	-ilterers SI	nredders	EPT C	hironomids
PC3       Piseon Cr4       10       6.2 (220)       (0.07)       0.68       0.1(005)       116       23       0.158074.3         PC5       Piseon Cr4       15       6.8       0.11       0.091       0.88       0       16       127       0.125         PC6       Pigeon Cr4       15       0.61       2.0063       0.12       0.12       0.11       0.11       12       30       3       24         PC6       Pigeon Cr4       15       7.3       0.92       0.12       0.42       1.0       0.015151515       0.015151515         PC7       Pigeon Cr4       15       7.3       0.92       0.12       0.42       1.0       0.01       1.1       1.2       30       3       2.4         PC8       Pigeon Cr4       14       6.8       0.1       0.11       0.01       0.14       1.0       0.0       0.1       1.1       1.2       1.0		Pigeon Cre	13	6.8 (9/0)	0.38												
PCA         Piseon Crx         9         6.3 (07)         (0/08)         0.36         0         0.16         122         0.138           PCS         Pigeon Crx         15         6.8         0.11         0.91         0.32         0.32         0.138           PC6         Pigeon Crx         15         7.3         0.92         0.12         0.133         0.155         0.508190721         11         12         30         3         24           PC6         Pigeon Crx         15         7.3         0.92         0.12         0.15         0.155         0.508190721         11         12         30         3         24           PC3         Pigeon Crx         14         6.6         1.9         0.44         0.02         143         0.021         0.01967243         1         0         5         1         1         1         3         1         1         3         38         40           PC12         Pigeon Crx         14         7.3<(20)         1.4         0.27         1<0.014         143         3000         0.37254902         4         49         18         38         40           PC12         Pigeon Crx         14         7.3<(20	PC2	Pigeon Cre	8	6.4 (20/0)	(0/80)	0.67	0 (0/	50)	104	21	0.012345679	0.019607843	, 20	0	0	0	80
PCS         Pigeon Crv         15         6.8         0.11         0.09         0.36         2         0.06         152         0.138           PC6         Pigeon Crv         15         7.3         0.92         0.12         0.14         0.05151515         0.015151515           PC7         Pigeon Crv         17         6.6         1.9         0.44         0.18         0.02         0.01616153452         0.01616153453         0.01610742857         11         12         30         3         24           PC8         Pigeon Crv         11         6.7         (10)         0.053         0.44         1<(050)         190         2.000         0.005606249         0.01960743         1         0         0         8         150           PC11         Pigeon Crv         14         6         0.1         0.11         0.73         0.04         0.20         0.01960743         0         0         8         150           PC13         Pigeon Crv         14         0.27         0.03         1         0.18         14         0.167         0.00907873         0         5         0         0         1         2           PC16         Pigeon Crv         16		Pigeon Cre	10	6.2 (22/0)	(0/57)	0.56	0 (0/	50)	116			0.019607843	,				
PCR         Pigen Cr         10         6.1         2 (0/65)         0.5         0.0         2         23         1.5         0.015151515           PCR         Pigen Cr         17         6.8         1.9         0.44         0.02         12         1.818         0.046         0.508166721         19         10         5         13           PC8         Pigen Cr         11         6.7         (0/0)         0.053         0.44         0.16         0.508166721         0.1014057433         1         0         1         15           PC11         Pigen Cr         14         6.6         0.1         0.11         0.73         4         0.02         143         0.002         0.038216861         1         0         1         1         15           PC12         Pigen Cr         14         7.3         0.07         14         0.027         1         0.04         13         0.021         0.3724902         4         49         18         38         40           PC14         Pigen Cr         14         7.3         0.02         0.02         0.02         0.02         0.02         0.032254902         4         49         18         8	PC4	Pigeon Cre	9	6.3 (0/7)	(0/88)	0.68	0	0.16	127								
PC7       Pigeon Ort       15       7.3       0.92       0.16       0.66       0.508198721       11       12       30       3       25         PC8       Pigeon Ort       11       6.7       (10)       0.053       0.44       1       11       12       11       12       11       12       13       25       14       25       11       14       25       14       20       167       20	PC5	Pigeon Cre	15	6.8 0.	11 0.091	0.36	2	0.06	152								
PC9       Pigen Or       17       6.6       1.9       0.4       0.18       2       0.01       12       1.816       0.461538462       0.107142857       19       10       0	PC6	Pigeon Cre	10	6.1	2 (0/65)	0.51	0	0.02	123								
PC9         Pigeon Crc         11         6 7 (10)         0.053         0.44         1 (050)         190         2.000         0.0058002649         0.01907843         1         0         0         8         150           PC11         Pigeon Crc         11         5.3 (046)         0.67         0.48         3 (050)         143         0.021         0.019607843         1         0         0         1         13         160           PC13         Pigeon Crc         14         7.3 (046)         0.67         0.48         3 (050)         143         0.021         0.035129512         0.37254902         4         49         18         8         40           PC16         Pigeon Crc         16         6.8         14         0.01         0.47         1         0.18         14         0.017         0.037254902         4         49         18         8         4           PC16         Pigeon Crc         16         6.1 (070)         0.33         2         0.64         162         25.000         2         0.01907838         0.01907843         0         5         7         8           PC1         Pigeon Crc         16         6.1 (070)         0.33         2 <td>PC7</td> <td>Pigeon Cre</td> <td>15</td> <td>7.3 0.</td> <td>92 0.12</td> <td>0.42</td> <td>1</td> <td>0.5</td> <td>134</td> <td>0.923</td> <td>0.16</td> <td>0.508196721</td> <td>11</td> <td>12</td> <td>30</td> <td>3</td> <td>24</td>	PC7	Pigeon Cre	15	7.3 0.	92 0.12	0.42	1	0.5	134	0.923	0.16	0.508196721	11	12	30	3	24
PC11       Pigeon Cre       14       6       0.1       1.1       0.0       1.1       0.0       0.039216986       1       10       1       13       116         PC12       Pigeon Cre       14       7.3       (2/0)       1.4       0.27       1       0.04       134       3.000       0.019607843       0       55       0.082       0.95       0.02       0.37254902       4       49       18       38       40         PC15       Pigeon Cre       16       6.8       14       0.01       0.47       1       0.18       81       0.027       0.099708738       0.019607843       0       5       0       0       102       122         LP1       Little Pigec       16       6.7       0.009708738       0.019607843       0       5       0       0       102       122         LP2       Little Pigec       11       6.4       0.37       2       0.61       142       33000 <td>PC8</td> <td>Pigeon Cre</td> <td>17</td> <td>6.6 1</td> <td>.9 0.44</td> <td>0.18</td> <td>2</td> <td>0.091</td> <td>112</td> <td>1.818</td> <td>0.461538462</td> <td>0.107142857</td> <td>19</td> <td>10</td> <td>5</td> <td>11</td> <td>25</td>	PC8	Pigeon Cre	17	6.6 1	.9 0.44	0.18	2	0.091	112	1.818	0.461538462	0.107142857	19	10	5	11	25
PC12       Pigeon Cr       11       5.3 (0/46)       0.67       0.48       3 (0/50)       143       0.021       0.018007843         PC13       Pigeon Cr       9       5.9       0.082       0.95       0.23       1       0.44       163       0.000       0.951219512       0.37254902       4       49       18       38       40         PC16       Pigeon Cr       16       6.8       0.01       0.47       1       0.18       0.0167       0.009708738       0.0       0.5754902       4       49       18       38       40         PC16       Pigeon Cr       16       6.8       0.01       0.47       1       0.187       0.009708738       0.019607843       0       5       0       0       0       102         LC1       Locust Cre       12       6.7       0.107       2       0.31       11       11       18       18       18         LC1       Locust Cre       12       6.7       0.47       0.37       2       0.61       14       0.167       0.009708738       0.10167643       0       1       8       1       8       1       8       1       8       1       8       1	PC9	Pigeon Cre	11	6.7 (1/0)	0.053	0.44	1 (0/	50)	190	2.000	0.059602649	0.019607843	i 1	0	0	8	150
PC13         Pigeon Ort         14         7.3         2/D         1.4         0.27         1         0.04         198         3.000         9.5121512         0.37254902         4         49         18         38         40           PC14         Pigeon Ort         14         7.2         0.074         0.02         0.28         1         0.27         152         0.005         0.951219512         0.37254902         4         49         18         38         40           PC16         Pigeon Ort         16         6.8         14         0.01         0.47         1         0.18         14         0.167         0.009708738         0.019607843         0         5         0         0         102           LC1         Locust Ort         1         6.7         0.11         17         3.00         2         0.117647059         2         0         5         3         18           LP1         Little Pigec         11         6.4         0.13         0.29         0         0.6         17         3         0.039215686         11         8         1         7.2         2.9         1         1         3         39         5         0.1         0.	PC11	Pigeon Cre	14	6 0	.1 0.11	0.73	4	0.02	145	0.182	0.11965812	0.039215686	<i>i</i> 1	10	1	13	116
PC14       Pigeon Ore       9       5.9       0.002       0.23       1       0.38       183       0.100       0.951219512       0.37254902       4       49       18       38       40         PC15       Pigeon Ore       14       7.2       0.074       0.102       0.28       1       0.27       152         PC16       Pigeon Ore       6       6.1       (0/102)       0.84       0       0.077       14       0.167       0.009708738       0.109070843       0       5       0       0       0       0         LC1       Locust Ore       6       6.1 (0/5)       0.170       0.33       2       0.64       162       25.00       0       5       5       0       0       0       17       0       0.100       0.3321566       11       8       1       8       7       0       2       0       5       3       1       1       8       7       0       0       0       0.07       0.33       0       0.06       174       0       0.333333333       0.352941176       34       1       1       7       9       29       0       0.02       171       3       0.033333333333       0.352	PC12	Pigeon Cre	11	5.3 (0/46)	0.67	0.48	3 (0/	50)	143	0.021		0.019607843	i				
Pice         Pice <th< td=""><td>PC13</td><td>Pigeon Cre</td><td>14</td><td>7.3 (2/0)</td><td>1.4</td><td>0.27</td><td>1</td><td>0.04</td><td>134</td><td>3.000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	PC13	Pigeon Cre	14	7.3 (2/0)	1.4	0.27	1	0.04	134	3.000							
Price         Price         Res         14         0.01         0.47         1         0.18         184           LC1         Locust Cre         6         6.1 (0/5)         (0/102)         0.84         (0/050)         114         0.167         0.00970838         0         5         0         0         102           LC2         Locust Cre         12         6.7 (24/0)         0.37         0.33         2         0.64         162         25.00         2         0.117647059         2         0         5         7         R           LP1         Little Pige         9         5.9 (2/0)         0.37         0.33         2         0.61         142         3.00         2         0.117647059         2         0         5         7         R           BC1         Bluegrass         13         6.6         1.4         0.11         0.53         2         0.02         11         3         3         3         3         4         1         7         9         29           BC2         Bluegrass         14         7         3         0.002         11         5         0.33333333         0.352941176         3         1         1	PC14	Pigeon Cre	9	5.9 0.0	82 0.95	0.23	1	0.36	163	0.100	0.951219512	0.37254902	. 4	49	18	38	40
LC1       Locust Cre       6       6.1 (0/5)       (0/102)       0.84       0 (0/50)       114       0.167       0.009708738       0.019607843       0       5       0       0       102         LC2       Locust Cre       12       6.7 (24/0)       0.37       0.33       2       0.64       162       25.000       2       0.117647059       2       0       5       3       18         LP1       Little Pige       1       6.4       1.5       0.47       0.37       2       0.061       142       0.017671       0.039215686       11       8       7       2       0       2       0.017       3       2       0.02       110       1.333       0.123287671       0.039215686       11       1       8       7       2       0       0       14       1       7       9       2       9       9       9       9       1       3	PC15	Pigeon Cre	14	7.2 0.0	74 0.02	0.28	1	0.27	152								
LC2       Locust Cre       12       6.7 (24/0)       0.37       0.33       2       0.64       162       25.000       2       0.117647059       2       0       5       37       18         LP1       Little Pigec       9       5.9 (2/0)       2       0.32       1       0.1176       3.000       2       0.117647059       2       0       5       37       18         LP2       Little Pigec       11       6.4       1.5       0.47       0.37       2       0.61       142       0.039215686       11       8       1       8       72         BC3       Bluegrass       14       7       34       0.31       0.24       2       0.14       143       17.5       0.33333333       0.352941176       34       1       17       9       29         WD1       Weinsheim       16       6.6       9       0.077       0.38       1       0.02       117       3       0.00909090       1       1       3       39       S1       Stollberg C       5       7.9 (2/0) (0/109)       0       0       0.2       117       3       0.00909090       1       1       3       44       27       0	PC16	Pigeon Cre	16	6.8	14 0.01	0.47	1	0.18	184								
LP1       Little Pigec       9       5.9 (20)       2       0.32       1       0.1       117       3.000       2       0.117647059       2       0       5       37       18         LP2       Little Pigec       11       6.4       1.5       0.47       0.37       2       0.61       142       7       7       0.33       0.123287671       0.039215686       11       8       7       8       7       34       0.31       0.24       2       0.14       143       17.5       0.33333333       0.352941176       34       1       17       9       29         WD1       Weinsheir       16       6.6       9       0.077       0.38       1       0.02       117       3       0.00909090       1       1       3       39       39       SD1       Stollberg L       5       7.9       0.63       0.1       0.039215686       9       1       1       3       39       39       SD1       Stollberg L       5       7.9       0.63       1       26       1       3       39       30       30       30       30       30       30       30       30       30       30       30       30	LC1	Locust Cre	6	6.1 (0/5)	(0/102)	0.84	0 (0/	50)	114	0.167	0.009708738	0.019607843	<i>i</i> 0	5	0	0	102
LP2       Little Pige       11       6.4       1.5       0.47       0.37       2       0.61       142         BC1       Bluegrass       13       6.6       1.4       0.11       0.53       2       0.02       110       1.33       0.123287671       0.039215686       11       8       1       8       72         BC2       Bluegrass       14       7       34       0.31       0.24       2       0.14       143       17.5       0.33333333       0.352941176       34       1       17       9       29         WD1       Weinsheim       16       6.6       9       0.077       0.38       1       0.02       117       3       0.0090909090         UN1       Unnamed       10       7       0.63       0.74       153       0       1       26       1       23       39         SG1       Squaw Cre       12       7       0.016       0.74       153       0       1       26       1       23       39         BG1       Big Creek       16       6.2       0.06       0.23       0.38       2       0.05       0.55       0.529411765       0       1       23	LC2	Locust Cre	12	6.7 (24/0)	0.37	0.33	2	0.64	162	25.000							
BC1       Bluegrass       13       6.6       1.4       0.11       0.53       2       0.02       110       1.333       0.123287671       0.039215686       11       8       1       8       72         BC2       Bluegrass       8       6.9       34 (0/68)       0.39       0       0.06       174       7       7       7       9       9       9       9       1       1       3       39       33333333       0.352941176       34       1       1       3       39         SD1       Stollberg C       5       7.9 (2/0)       (0/109)       0.9       0       0.02       117       3       0.009090909       1       1       3       39         SD1       Stollberg C       5       7.9 (2/0)       (0/14)       0.5       0       0.74       153       0.0090909       1       1       3       44       23         SG1       Squaw Cre       12       7 (0/1)       0.44       0.47       2       0.52       110       0.5       0.59411765       0       1       26       11       23         BG2       Big Creek       16       6.2       0.06       0.23       0.38       0.57	LP1	Little Pigec	9	5.9 (2/0)	2	0.32	1	0.1	117	3.000	2	0.117647059	/ 2	0	5	37	18
BC2         Bluegrass         8         6.9         34 (0/68)         0.39         0         0.06         174           BC3         Bluegrass         14         7         34         0.31         0.24         2         0.14         143         17.5         0.33333333         0.352941176         34         1         17         9         29           WD1         Weinshein         16         6.6         9         0.077         0.38         1         0.02         117         3         0.009090909           UN1         Unnamed         10         7         0.063 (0/14)         0.5         0         0.5         0.529411765         0         1         26         11         23           SC1         Squaw Cr         12         7         0.063 (0/14)         0.5         0.5         0.529411765         0         1         26         11         23           BG1         Big Creek         12         6 (0/16)         1.6         0.29         1         0.06         152         0.058         1.607142857         0.078431373         0         16         3         44         27           BG2         Big Creek         16         6.2         0.	LP2	Little Pigec	11	6.4 1	.5 0.47	0.37	2	0.61	142								
BC3       Bluegrass       14       7       34       0.31       0.24       2       0.14       143       17.5       0.33333333       0.352941176       34       1       17       9       29         WD1       Weinsheim       16       6.6       9       0.077       0.38       1       0.02       101       5       0.1       0.039215686       9       1       1       3       39         SD1       Stollberg E       5       7.9 (2/0)       (0/109)       0.9       0       0.02       117       3       0.00909090       0       0.02       117       3       0.009090909       0       0.02       11       26       11       26       11       23       0       0.5       0.529411765       0       1       26       11       23       39       3       0.0109090909       0       0.02       11       23       0       1       26       11       23       36       1       0.02       12       0.05       0.5       0.529411765       0       1       26       11       23       3       3       3       44       27       30       35       35       2       7       30       3	BC1	Bluegrass	13	6.6 1	.4 0.11	0.53	2	0.02	110	1.333	0.123287671	0.039215686	, 11	8	1	8	72
WD1         Weinsheim         16         6.6         9         0.077         0.38         1         0.02         101         5         0.1         0.039215686         9         1         1         3         39           SD1         Stollberg L         5         7.9 (2/0)         (0/109)         0.9         0         0.02         117         3         0.00909090         0         0.02         117         3         0.00909090         0         0.01         1         26         1         23         0.00909090         0         0.02         117         3         0.00909090         0         1         26         11         23           SC1         Squaw Cre         12         7 (0/1)         0.44         0.47         2         0.52         110         0.5         0.50         0.529411765         0         1         26         11         23           BG1         Big Creek         16         6.2         0.06         0.23         0.38         2         0.04         126         0.078         0.25064516         0.058947368         2         79         32         28         02           SF1         Smith Fork         10         6.4 (0/37)	BC2	Bluegrass	8	6.9	34 (0/68)	0.39	0	0.06	174								
SD1       Stollberg E       5       7.9 (2/0)       (0/109)       0.9       0       0.02       117       3       0.009090909         UN1       Unnamed       10       7       0.063 (0/14)       0.5       0       0.74       153         UN1       Unnamed       10       7       0.063 (0/14)       0.5       0       0.74       153         SC1       Squaw Cre       12       7 (0/1)       0.44       0.47       2       0.52       110       0.5       0.5       0.529411765       0       1       26       11       23         BG1       Big Creek       12       6 (0/16)       1.6       0.29       1       0.06       152       0.059       1.607142857       0.078431373       0       16       3       44       27         BG2       Big Creek       16       6.2       0.06       0.23       0.38       2       0.04       126       0.078       0.258064516       0.058823529       3       50       2       7       32       28       20       2       33       17       42         SF1       Smith Fork       10       6.4 (0/37)       0.4       0.34       2       0.06       12	BC3	Bluegrass	14	7	34 0.31	0.24	2	0.14	143	17.5	0.333333333	0.352941176	, 34	1	17	9	29
UN1       Unnamed       10       7       0.063 (0/14)       0.5       0       0.74       153         SC1       Squaw Cre       12       7 (0/1)       0.44       0.47       2       0.52       110       0.5       0.5       0.529411765       0       1       26       11       23         BG1       Big Creek       16       6.2       0.06       0.23       0.38       2       0.04       126       0.059       1.607142857       0.078431373       0       16       3       44       27         BG2       Big Creek       16       6.2       0.06       0.23       0.38       2       0.04       126       0.078       0.258064516       0.05823529       3       50       2       7       30         SF1       Smith Fork       15       6       0.025       1.4       0.31       3       0.57       134       0.038       1.380952381       0.578947368       2       79       32       28       20         SF2       Smith Fork       10       6.4 (0/37)       0.4       0.34       1       0.31       138        3       1       1       82         VF1       West Fork	WD1	Weinsheim	16	6.6	9 0.077	0.38	1	0.02	101	5	0.1	0.039215686	, 9	1	1	3	39
SC1       Squaw Cre       12       7 (0/1)       0.44       0.47       2       0.52       110       0.5       0.5       0.529411765       0       1       26       11       23         BG1       Big Creek       12       6 (0/16)       1.6       0.29       1       0.06       152       0.059       1.607142857       0.078431373       0       16       3       44       27         BG2       Big Creek       16       6.2       0.06       0.23       0.38       2       0.04       126       0.078       0.258064516       0.058232529       3       50       2       7       30         SF1       Smith Fork       15       6       0.025       1.4       0.31       3       0.57       134       0.038       1.380952381       0.578947368       2       79       32       28       20         SF2       Smith Fork       9       7.5 (1/0)       0.83       0.46       1       31       138       0.026       0.418604651       0.039215686       1       33       1       1       82         WF1       West Fork       14       6.5       0.86       0.38       1       0.02       130       0.0	SD1	Stollberg E	5	7.9 (2/0)	(0/109)	0.9	0	0.02	117	3	0.009090909						
BG1       Big Creek       12       6 (0/16)       1.6       0.29       1       0.06       152       0.059       1.607142857       0.078431373       0       16       3       44       27         BG2       Big Creek       16       6.2       0.06       0.23       0.38       2       0.04       126       0.078       0.258064516       0.058823529       3       50       2       7       30         SF1       Smith Fork       15       6       0.025       1.4       0.31       3       0.57       134       0.026       0.418604651       0.058823529       3       50       2       7       30         SF2       Smith Fork       10       6.4 (0/37)       0.4       0.34       2       0.06       122       0.026       0.418604651       0.078431373       0       37       3       17       42         SF3       Smith Fork       9       7.5 (1/0)       0.83       0.46       1       0.31       132       0.059       0.024096386       0.039215686       1       33       1       1       82         WF1       West Fork       14       6.5       0.86       0.038       3.8       1       0.02	UN1	Unnamed :	10	7 0.0	53 (0/14)	0.5	0	0.74	153								
BG2       Big Creek       16       6.2       0.06       0.23       0.38       2       0.04       126       0.078       0.258064516       0.058823529       3       50       2       7       30         SF1       Smith Fork       15       6       0.025       1.4       0.31       3       0.57       134       0.038       1.380952381       0.578947368       2       79       32       28       20         SF2       Smith Fork       10       6.4 (0/37)       0.4       0.34       2       0.06       122       0.026       0.418604651       0.078431373       0       3       1       42         SF3       Smith Fork       9       7.5 (1/0)       0.83       0.46       1       0.31       138       0.024096386       0.039215686       1       33       1       1       82         WF1       West Fork       14       6.5       0.86       0.038       1       0.02       132       0.059       0.024096386       0.039215686       1       33       1       1       82         WF2       West Fork       14       6.5       0.66       0.38       0.38       1       0.02       130       0.017857143<	SC1	Squaw Cre	12	7 (0/1)	0.44	0.47	2	0.52	110	0.5	0.5	0.529411765	, 0	1	26	11	23
SF1       Smith Fork       15       6       0.025       1.4       0.31       3       0.57       134       0.038       1.380952381       0.578947368       2       79       32       28       20         SF2       Smith Fork       10       6.4 (0/37)       0.4       0.34       2       0.06       122       0.026       0.418604651       0.078431373       0       37       3       17       42         SF3       Smith Fork       9       7.5 (1/0)       0.83       0.46       1       0.31       18       0.059       0.024096386       0.039215686       1       33       1       1       82         WF1       West Fork       14       6.5       0.86       0.038       1       0.02       130       0.059       0.024096386       0.039215686       1       33       1       1       82         WF2       West Fork       14       6.5       0.66       0.38       1       0.02       130       0.017857143       0       1       33       1       1       82         WF3       West Fork       12       5.6       7 (0/55)       0.36       0       0.1       177       0.017857143       0       <	BG1	Big Creek	12	6 (0/16)	1.6	0.29	1	0.06	152	0.059	1.607142857	0.078431373	, 0	16	3	44	27
SF2       Smith Fork       10       6.4 (0/37)       0.4       0.34       2       0.06       122       0.026       0.418604651       0.078431373       0       37       3       17       42         SF3       Smith Fork       9       7.5 (1/0)       0.83       0.46       1       0.31       138       1       0.024       0.059       0.024096386       0.039215686       1       33       1       1       82         WF1       West Fork       14       6.5       0.86       0.038       1       0.02       130       0       0.07857143       1       33       1       1       82         WF2       West Fork       12       5.6       7 (0/55)       0.36       0       0.1       177       0.010869565       0.039215686       1       33       1       1       82         WF3       West Fork       12       5.6       7 (0/55)       0.36       0       0       1       177       0.010869565       0.039215686       10       0       1       0       91	BG2	Big Creek	16	6.2 0.	0.23	0.38	2	0.04	126	0.078	0.258064516	0.058823529	/ 3	50	2	7	30
SF3         Smith Fork         9         7.5 (1/0)         0.83         0.46         1         0.31         138           WF1         West Fork         14         6.2         0.03         0.012         0.52         1         0.02         132         0.059         0.024096386         0.039215686         1         33         1         1         82           WF2         West Fork         14         6.5         0.86         0.038         1         0.02         130           WF3         West Fork         12         5.6         7 (0/55)         0.36         0         0.1         177         0.017857143           HC1         Hurricane I         10         7.2 (10/0)         0/91)         0.7         0         0.22         11         0.010869565         0.039215686         10         0         1         0         91	SF1	Smith Fork	15	6 0.0	25 1.4	0.31	3	0.57	134	0.038	1.380952381	0.578947368	, 2	79	32	28	20
WF1         West Fork         14         6.2         0.03         0.012         0.52         1         0.02         132         0.059         0.024096386         0.039215686         1         33         1         1         82           WF2         West Fork         14         6.5         0.86         0.038         0.38         1         0.02         130         0.017857143           WF3         West Fork         12         5.6         7 (0/55)         0.36         0         0.1         177         0.017857143           HC1         Hurricane I         10         7.2 (10/0)         0/91)         0.7         0         0.02         129         11         0.010869565         0.039215686         10         0         1         0         91		Smith Fork	10	6.4 (0/37)	0.4		2			0.026	0.418604651	0.078431373	, 0	37	3	17	42
WF2         West Fork         14         6.5         0.86         0.038         1         0.02         130           WF3         West Fork         12         5.6         7 (0/55)         0.36         0         0.1         177         0.017857143           HC1         Hurricane I         10         7.2 (10/0)         (0/91)         0.7         0         0.02         129         11         0.010869565         0.039215686         10         0         1         0         91	SF3	Smith Fork	9	7.5 (1/0)			1		138								
WF3         West Fork         12         5.6         7 (0/55)         0.36         0         0.1         177         0.017857143           HC1         Hurricane I         10         7.2 (10/0)         (0/91)         0.7         0         0.02         129         11         0.010869565         0.039215686         10         0         1         91	WF1	West Fork	14				1	0.02	132	0.059	0.024096386	0.039215686	, 1	33	1	1	82
HC1 Hurricane 1 10 7.2 (10/0) (0/91) 0.7 0 0.02 129 11 0.010869565 0.039215686 10 0 1 0 91	WF2	West Fork	14	6.5 0.	36 0.038	0.38	1	0.02	130								
	WF3	West Fork	12	5.6	7 (0/55)	0.36	0	0.1	177		0.017857143						
SA1 Sand Cree 10 6.3 0.35 0.013 0.34 1 0.14 169 0.368 0.025641026 0.152542373 13 37 8 1 77	HC1	Hurricane (	10	7.2 (10/0)	(0/91)	0.7	0	0.02	129	11	0.010869565	0.039215686	, 10	0	1	0	91
	SA1	Sand Cree	10	6.3 0.	35 0.013	0.34	1	0.14	169	0.368	0.025641026	0.152542373	, 13	37	8	1	77
average 11.77778 6.547222 5.3737 0.482462 0.440278 1.194444 0.193903 137.5		average 1	11.77778 6.	547222 5.37	37 0.482462	0.440278	1.194444 0.	193903	137.5								
max 17 7.9 34 2 0.9 4 0.74 190		max	17			0.9	4		190								
min 5 5.3 0.025 0.01 0.18 0 0.02 101		min	5	5.3 0.0	25 0.01	0.18	0	0.02	101								

BC1	5/3/2000		
Periphyton	1	Slimes	0
Filamentous Algae	0	Macroinvertebrates	1
Macrophytes	0	Fish	1

ORDER	FAMILY	COUNT	TOLERANCE VALUES			]
Oligochaeta		2		0.000		
Gastropoda	Physa	11	8	0.830	Scrapers	Lefthanded
•	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		1			Filters	
Ephemeroptera	Canidae	7	7	0.462	Gathers	Backplate
• •	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9		Predators	
Zygoptera	Coenagrioidae	4	9		Predators	
551	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	
Trichoptera	Hydropsychidae	1	4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	•
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Longtoed
	Dytiscidae		Ŭ		Predators	Predacious
	Elmidae	1	4		Gathers	Riffle
	Haliplidae	1			Predators	Hairycrawling
	Psephenidae	· ·	4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eved
Diptera	Blood-red Chironomidae	14	8		Gathers	4eyeu
Diptera	Other Chironomidae	58	6		Gathers	
	Culicidae	50	0		Shredders	Mocquito
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	Craneny
	Simulidae	6	6		Filters	Blackfly
	Ceratopogonidae	3	6		Gathers	Bitingmidge
Ostracoda	Ceratopogonidae	3	0			DaphniaSeedshrim
	Corixidae				Predators	Waterboatmen
Hemiptera	-					vvalerboalmen
	Nepidae			0.000		\A/
	Gerridae				Predators	Waterstrider
Isopoda	Asellidae	1	8		Shredders	Pillbug
Amphipod			4		Shredders	Shrimp
Decapoda			6		Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavengers	Planaria

TAXA RICHNESS	13
FBI	6.632
Scraper/Filters	1.375
EPT/Chironomidae	0.111
% Contribution of Dominant Family	0.527
EPT Index	2.000
Community Similarity Indices	
СРОМ	0.020
Total Number Collected	

Periphyton 1 Slimes	
Filamentous Algae 1 Macroinvertebrates	
Macrophytes 0 Fish	

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta				0.000		+
Gastropoda	Physa	68	8		Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	,				Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	1
Zygoptera	Coenagrioidae		9	0.000	Predators	1
	Calopterygidae	9	5	0.265	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ī
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3	0.000	Gathers	Ī
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1	0.000	Gathers	
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
	Dytiscidae					Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae	4		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	3	8		Gathers	
	Other Chironomidae	65	6		Gathers	
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae	2	6		Filters	Blackfly
	Ceratopogonidae	16	6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	7	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	8
FBI	6.865
Scraper/Filters	34.000
EPT/Chironomidae	0.000 0/68
% Contribution of Dominant Family	0.391
EPT Index	0.000
Community Similarity Indices	
CPOM	0.060
Total Number Collected	174

BC3	5/4/2000	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ĩ
Oligochaeta				0.000		Ť
Gastropoda	Physa	31	8		Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae		-		Scrapers	Limpet
Bivalvia		1			Filters	1 '
Ephemeroptera	Canidae	6	7		Gathers	Backplate
-	Baetidae		4	0.000	Gathers	1 .
	Heptageniidae	3	4	0.093	Scrapers	Scraping
Anisoptera	Aeshnidae	3	3	0.070	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	, , , , , , , , , , , , , , , , , , ,
	Libellulidae		9		Predators	1
Zygoptera	Coenagrioidae		9	0.000	Predators	Ť
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ī
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t i
	Polycentropodidae		6	0.000	Filters	Ť
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	4		0.000	Predators	Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae	1		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	3	8	0.186	Gathers	
	Other Chironomidae	26	6	1.209	Gathers	]
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	I
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae	5	6		Gathers	Bitingmidge
Ostracoda		8				DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	34	8		Shredders	
Amphipod		2	4		Shredders	
Decapoda		16	6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	14
FBI	6.953
Scraper/Filters	34.000
EPT/Chironomidae	0.310
% Contribution of Dominant Family	0.238
EPT Index	2.000
Community Similarity Indices	
CPOM	0.140
Total Number Collected	143

BG1	5/7/2000	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	2	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta				0.000		Ť
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		16			Filters	1 '
Ephemeroptera	Canidae	44	7		Gathers	Backplate
	Baetidae		4		Gathers	
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae	3	3		Predators	
	Corduliidae	3	5		Predators	Lonalea
	Cordulegastridae	-	3		Predators	33
	Libellulidae		9		Predators	ł
	Gomphidae	2	1		Predators	+
Zygoptera	Coenagrioidae		9		Predators	+
	Calopterygidae	13	5		Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	22	5		Predators	
	Dytiscidae	11		0.000	Predators	Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	
Diptera	Blood-red Chironomidae		8	0.000	Gathers	loyou
Dipteru	Other Chironomidae	27	6		Gathers	+
	Culicidae	1	•		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	oranony
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda			•			DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	
Tiemptera	Nepidae			0.000		Waterboatmen
	Gerridae					Waterstrider
Isopoda	Asellidae	6	8		Shredders	
Amphipod		0	4	0.007	Shredders	Shrimn
Decapoda		4	6		Predators	
Annelid	Hirudinea	4	U	0.194		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha			4		Predators	Horsehair
Tubellaria					Scavenge	
		L		0.000	Scavenge	

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TAXA RICHNESS	12	
FBI	5.992	
Scraper/Filters	0.000 0/	16
EPT/Chironomidae	1.630	
% Contribution of Dominant Family	0.289	
EPT Index	1.000	
Community Similarity Indices		
СРОМ	0.060	
Total Number Collected	152	

# BC1

BG2	5/7/2000						
Periphyton	0		Slimes	0			
Filamentous Algae	1		Macroinvertebrates	1			
Macrophytes	0		Fish	1			
Macrobe	nthos Quailitative Sample	List	l				
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Oligochaeta		2		0.000			
Gastropoda	Physa	3	8	0.381	Scrapers	Lefthandeo	1
· · ·	Planorbidae				Scrapers	Ramshorn	
	Lymnaeidae		6			Righthande	ed
	Ancylidae		-		Scrapers	Limpet	
Bivalvia	, and judade	48			Filters	pot	
Ephemeroptera	Canidae	6	7		Gathers	Backplate	
Ephenieloptelu	Baetidae	0	4		Gathers	Buokplate	
	Heptageniidae		4		Scrapers	Scraping	
Anisontora	Aeshnidae		3		Predators	Scraping	
Anisoptera	Corduliidae	1	5			Longlag	
	-		3		Predators Predators	Longleg	
	Cordulegastridae						
	Libellulidae	-	9		Predators		
Zygoptera	Coenagrioidae	3	9		Predators	0.11	
	Calopterygidae	4	5		Predators	Stiffantaen	а
Plecoptera	Perlidae		1		Predators		
Trichoptera	Hydropsychidae	1	4		Filters	Webspinne	er
	Philopotamide		3		Gathers		
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers		
	Hydroptilidae		4	0.000	Filters	Sandsnails	hell
Coleoptera	Dryopidae	12	5	0.952	Predators	Longtoed	
	Dytiscidae	9		0.000	Predators	Predacious	;
	Elmidae		4	0.000	Gathers	Riffle	
	Haliplidae			0.000	Predators	Hairycrawli	ng
	Psephenidae		4			Waterpenn	
	Gyrinidae					4eyed	,
Diptera	Blood-red Chironomidae	2	8		Gathers		
D.p.010	Other Chironomidae	28	6		Gathers		
	Culicidae	20	Ŭ		Shredders	Mosquito	
	Tipulidae		3			Cranefly	
	Tabanidae		6		Predators	Oranicity	
	Simulidae	1	6		Filters	Blackfly	
	Ceratopogonidae	1	6			Bitingmidg	
Ostrasada	Ceratopogonidae	2	8				
Ostracoda		3				DaphniaSe	
Hemiptera	Corixidae					Waterboat	nen
	Nepidae			0.000		14/ 1	
	Gerridae			0.000	Predators	Waterstride	er
Isopoda	Asellidae	2	8		Shredders		
Amphipod			4		Shredders		
Decapoda			6		Predators		
Annelid	Hirudinea	1		0.000		Leech	
Megaloptera	Sialidae		4		Predators		
Nematomorpha						Horsehair	
Tubellaria				0.000	Scavenger	Planaria	
TAXA RICHNESS	16						
FBI	6.159						
Scraper/Filters	0.060						
EPT/Chironomidae	0.233						
% Contribution of Dominant Family	0.381	1					
EPT Index	2.000						
Community Similarity Indices	2.000						
CPOM	0.040						
Total Number Collected	126						
	120	1		l		l	

HC1	5/5/2000	
Periphyton	1	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		5		0.000		1
Gastropoda	Physa	10	8	0.650	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia					Filters	1 '
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae	8	3		Predators	
· ·	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae	8	3	0.195	Predators	
	Libellulidae		9		Predators	1
Zygoptera	Coenagrioidae		9	0.000	Predators	1
	Calopterygidae	2	5	0.081	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	1
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
•	Philopotamide		3		Gathers	
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1		Gathers	-
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Lonatoed
•	Dytiscidae			0.000	Predators	Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae				Predators	4eved
Diptera	Blood-red Chironomidae	90	8	5.854	Gathers	
	Other Chironomidae	1	6	0.049	Gathers	Ī
	Culicidae	1		0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8	0.000	Shredders	Pillbug
Amphipod		3	4	0.098	Shredders	Shrimp
Decapoda		1	6	0.049	Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha		1			Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 3 1

10	
7.171	
#DIV/0!	10/0
0.000	0/91
0.698	
0.000	
0.020	
	129
	7.171 #DIV/0! 0.000 0.698 0.000

5/6/2000		
1	Slimes	0
1	Macroinvertebrates	1
0	Fish	0
	5/6/2000 1 1 0	1 Slimes 1 Macroinvertebrates

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		6		0.000		Ť
Gastropoda	Physa	-	8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		1		0.000	Filters	1 '
Ephemeroptera	Canidae		7		Gathers	Backplate
- • •	Baetidae		4	0.000	Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9		Predators	1
Zygoptera	Coenagrioidae		9	0.000	Predators	1
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	1
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
<b>I</b>	Philopotamide		3		Gathers	† '
	Polycentropodidae		6		Filters	Ť
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae		-			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae		-		Predators	
Diptera	Blood-red Chironomidae	6	8		Gathers	,
-	Other Chironomidae	96	6	5,434	Gathers	Ť
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	- ,
	Simulidae	4	6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	- 1 5			0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	1		0.000	Predators	Waterboatmen
	Nepidae			0.000		1
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea		-	0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria					Scavenge	

TAXA RICHNESS	6	
FBI	6.113	
Scraper/Filters	0.000	0/5
EPT/Chironomidae	0.000	0/102
% Contribution of Dominant Family	0.842	
EPT Index	0.000	
Community Similarity Indices		
СРОМ	0.000	0/50
Total Number Collected		114

LC2	5/6/2000	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	1	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ī
Oligochaeta		1		0.000		Ī
Gastropoda	Physa	17	8	0.901	Scrapers	Lefthanded
•	Planorbidae	1		0.000	Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae	7	7	0.325	Gathers	Backplate
	Baetidae		4	0.000	Gathers	
	Heptageniidae	6	4	0.159	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
·	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	Ť
	Calopterygidae	3	5	0.099	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ī
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
· · ·	Philopotamide		3	0.000	Gathers	1 .
	Polycentropodidae		6	0.000	Filters	†
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Lonatoed
	Dytiscidae	9				Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	8	8	0.424	Gathers	
•	Other Chironomidae	27	6	1.073	Gathers	Ť
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6	0.000	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
·	Nepidae			0.000		Ī
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	53	8	2.808	Shredders	Pillbug
Amphipod		21	4	0.556	Shredders	Shrimp
Decapoda		9	6	0.358	Predators	Crayfish
Annelid	Hirudinea	1		0.000		Leech
Megaloptera	Sialidae	1	4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

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TAXA RICHNESS	12	
FBI	6.702	
Scraper/Filters	#DIV/0!	24/0
EPT/Chironomidae	0.371	
% Contribution of Dominant Family	0.327	
EPT Index	2.000	
Community Similarity Indices		
CPOM	0.635	
Total Number Collected		162

LP1	5/6/2000	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		17		0.000		ł
Gastropoda	Physa	2	8		Scrapers	Lefthanded
	Planorbidae	_	<u> </u>		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	7				Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
-	Baetidae	37	4	1.480	Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae	1	9	0.090	Predators	Ť
	Calopterygidae	2	5	0.100	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ī
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t ·
	Polycentropodidae		6	0.000	Filters	Ť
	Leptoceridae		1	0.000	Gathers	Ť
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
	Dytiscidae					Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	2	8	0.160	Gathers	Ī
	Other Chironomidae	16	6		Gathers	Ī
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6		Predators	I
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	34	8		Shredders	
Amphipod		6	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 2 0

TAXA RICHNESS	9	
FBI	5.910	
Scraper/Filters	#DIV/0! 2/0	0
EPT/Chironomidae	2.056	
% Contribution of Dominant Family	0.316	
EPT Index	1.000	
Community Similarity Indices		
СРОМ	0.100	
Total Number Collected	117	

LP2	5/6/2000	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		I
Oligochaeta		1		0.000		1
Gastropoda	Physa	2	8	0.113	Scrapers	Lefthanded
-	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia					Filters	1 '
Ephemeroptera	Canidae	13	7		Gathers	Backplate
	Baetidae		4	0.000	Gathers	1 .
	Heptageniidae	1	4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Lonalea
	Cordulegastridae		3		Predators	5 5
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	Ť
	Calopterygidae		5			Stiffantaena
Plecoptera	Perlidae		1		Predators	†
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae		-			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	6	8		Gathers	,
-	Other Chironomidae	24	6	1.021	Gathers	1
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	t í
	Simulidae	2	6		Filters	Blackfly
	Ceratopogonidae	1	6	0.043	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		†
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	52	8	2.950	Shredders	Pillbug
Amphipod		34	4	0.965	Shredders	Shrimp
Decapoda		6	6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

2 1

TAXA RICHNESS	11
FBI	6.447
Scraper/Filters	1.500
EPT/Chironomidae	0.467
% Contribution of Dominant Family	0.366
EPT Index	2.000
Community Similarity Indices	
СРОМ	0.610
Total Number Collected	142

PC1	5/12/2000						
	0/12/2000						
Periphyton	0		Slimes	0			
Filamentous Algae	0		Macroinvertebrates	1			
Macrophytes	0		Fish	2			
Macrobe	nthos Quailitative Sample	List	l				
	·						
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Oligochaeta		3		0.000			
Gastropoda	Physa	9	8		Scrapers	Lefthanded	
	Planorbidae				Scrapers	Ramshorn	
	Lymnaeidae		6		Scrapers	Righthande	ed
	Ancylidae				Scrapers	Limpet	
Bivalvia					Filters		
Ephemeroptera	Canidae	11	7		Gathers	Backplate	
	Baetidae	1	4		Gathers		
	Heptageniidae		4			Scraping	
Anisoptera	Aeshnidae		3		Predators		
<u> </u>	Corduliidae		5		Predators	Longleg	
	Cordulegastridae		3		Predators		
	Libellulidae		9		Predators		
Zygoptera	Coenagrioidae		9		Predators		
	Calopterygidae		5			Stiffantaen	а
Plecoptera	Perlidae		1		Predators		
Trichoptera	Hydropsychidae		4			Webspinne	er
	Philopotamide		3		Gathers		
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers		
	Hydroptilidae		4		Filters	Sandsnails	hell
Coleoptera	Dryopidae	4.4	5		Predators		
	Dytiscidae	14	4			Predacious	
	Elmidae		4		Gathers	Riffle	
	Haliplidae		4			Hairycrawli	
	Psephenidae		4		Scrapers	Waterpenn	у
Distara	Gyrinidae Blood-red Chironomidae	6	0		Predators Gathers	4eyed	
Diptera	Other Chironomidae		8		Gathers		
	Culicidae	26	0		Shredders	Maaguita	
	Tipulidae		3			Cranefly	
	Tabanidae		6		Predators	Cranelly	
	Simulidae		6			Blackfly	
	Ceratopogonidae		6			Bitingmidge	<u>`</u>
Ostracoda	Ceratopogorildae	9	0			DaphniaSe	<del>-</del> odebrimn
Hemiptera	Corixidae	11				Waterboat	
	Nepidae			0.000	TEUALUIS	vvalerbudli	
	Gerridae				Predators	Waterstride	۲
Isopoda	Asellidae	16	8		Shredders		~
Amphipod		3	4		Shredders		
Decapoda		8	6		Predators		
Annelid	Hirudinea	2	<u>_</u>	0.000		Leech	
Megaloptera	Sialidae	-	4		Predators		
Nematomorpha			т			Horsehair	
Tubellaria			1		Scavenger		
	1		4	0.000			
TAXA RICHNESS	13						
FBI	6.813						
Scraper/Filters	#DIV/0!	9/0					
EPT/Chironomidae	0.375						
% Contribution of Dominant Family	0.218						
EPT Index	2.000						
Community Similarity Indices							
СРОМ	0.100						
Total Number Collected	119						
			i	1		1	

PC2	5/12/2000	
Periphyton	0	Slimes
Filamentous Algae	0	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		1		0.000		+
Gastropoda	Physa	10	8		Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae	5	6		Scrapers	Righthanded
	Ancylidae	5			Scrapers	Limpet
Bivalvia	,	Ū			Filters	
Ephemeroptera	Canidae		7		Gathers	Backplate
	Baetidae		4		Gathers	Duchplate
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	e ei apilig
	Corduliidae		5		Predators	l onalea
	Cordulegastridae		3		Predators	99
	Libellulidae		9		Predators	+
Zygoptera	Coenagrioidae		9		Predators	
Zygoptoru	Calopterygidae		5		Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	otinantaena
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	Webspiriter
	Polycentropodidae		6		Filters	+
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
Coleoptera	Dytiscidae	2	5			Predacious
	Elmidae	2	4		Gathers	Riffle
	Haliplidae		4			Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae		4		Predators	
Diptoro	Blood-red Chironomidae	10	8		Gathers	4eyeu
Diptera	Other Chironomidae	70	6		Gathers	ł
		70	0			Maaguita
	Tipulidae		3		Shredders	
	Tabanidae		6		Predators Predators	Craneny
			-			Disalifiu
	Simulidae		6		Filters	Blackfly
O stra a si a	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	1	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 1 1

TAXA RICHNESS FBI	8 6.438	
Scraper/Filters	#DIV/0!	20/0
EPT/Chironomidae	0.000	0/80
% Contribution of Dominant Family	0.673	
EPT Index	0.000	
Community Similarity Indices		
CPOM		0/50
Total Number Collected	1	04

# DC2

PC3	5/8/2000					
Periphyton	0		Slimes	0		
Filamentous Algae	0		Macroinvertebrates	1		
Macrophytes	0		Fish	1		
Macrobe	nthos Quailitative Sample	List				
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		
Oligochaeta		17		0.000		
Gastropoda	Physa	19	8		Scrapers	Lefthanded
	Planorbidae		Ŭ		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae	3	-		Scrapers	Limpet
Bivalvia	, moynado	Ŭ			Filters	Limpor
Ephemeroptera	Canidae		7		Gathers	Backplate
	Baetidae		4		Gathers	Duonpiato
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	ooruping
	Corduliidae		5		Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9		Predators	
Zygoptera	Coenagrioidae		9		Predators	
	Calopterygidae	2	5			Stiffantaena
Plecoptera	Perlidae	<u> </u>	1		Predators	
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	3	5			Longtoed
	Dytiscidae	5	5			Predacious
	Elmidae	11	4		Gathers	Riffle
	Haliplidae		4			Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae		4			4eyed
Diptera	Blood-red Chironomidae	4	8		Gathers	4eyeu
	Other Chironomidae	53	6		Gathers	
	Culicidae	- 55	0		Shredders	Mocquito
	Tipulidae	-	3		Predators	Cranefly
	Tabanidae	-	6		Predators	Clanelly
	Simulidae	-	6		Filters	Blackfly
		-	6		Gathers	Bitingmidge
Ostracoda	Ceratopogonidae		Ŭ			DaphniaSeedshrimp
	Corixidae					Waterboatmen
Hemiptera	Nepidae	<u> </u>		0.000		vv alei Dualiileii
	Gerridae	<u> </u>				Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda		3	6	0.000		Cravfish
Annelid	Hirudinea	1	U	0.189		Leech
Megaloptera	Sialidae		4			Dobsenfly
Nematomorpha	Gialiuae	<u> </u>	4		Predators	Horsehair
Tubellaria		<u> </u>			Scavenger	
			I 	0.000	Juavengel	
TAXA RICHNESS	10					
FBI	6.200	-				
гы Scraper/Filters	#DIV/0!	22/0				
EPT/Chironomidae	#DIV/0! 0.000	22/0 0/57				
% Contribution of Dominant Family	0.000	0/37				
EPT Index	0.457					
Community Similarity Indices	0.000					
Community Similarity Indices	0.000	0/50				
Total Number Collected	0.000					
	110	<u> </u>		I		

PC4	5/14/2000						
	0,11,2000						
Periphyton	2		Slimes	0			
Filamentous Algae	2		Macroinvertebrates	2			
Macrophytes	0		Fish	0			
	<b>3</b>						
Macrobe	nthos Quailitative Sample	list					
inderede							
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Oligochaeta		7		0.000			
Gastropoda	Physa		8		Scrapers	Lefthanded	
	Planorbidae		-	0.000		Ramshorn	
	Lymnaeidae		6	0.000		Righthande	ed
	Ancylidae				Scrapers	Limpet	
Bivalvia	,	7		0.000	Filters	•	
Ephemeroptera	Canidae		7		Gathers	Backplate	
	Baetidae		4		Gathers		
	Heptageniidae		4			Scraping	
Anisoptera	Aeshnidae		3		Predators	1 3	
	Corduliidae		5			Longleg	
	Cordulegastridae		3		Predators		
	Libellulidae		9		Predators		
Zygoptera	Coenagrioidae	1	9		Predators		
551	Calopterygidae	1	5			Stiffantaen	а
Plecoptera	Perlidae		1		Predators		
Trichoptera	Hydropsychidae		4		Filters	Webspinne	r
•	Philopotamide		3		Gathers		
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers		
	Hydroptilidae		4	0.000	Filters	Sandsnails	hell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed	
•	Dytiscidae			0.000		Predacious	
	Elmidae		4	0.000	Gathers	Riffle	
	Haliplidae			0.000	Predators	Hairycrawli	ng
	Psephenidae		4	0.000		Waterpenn	y
	Gyrinidae			0.000	Predators	4eyed	
Diptera	Blood-red Chironomidae	2	8	0.150	Gathers	-	
	Other Chironomidae	86	6	4.822	Gathers		
	Culicidae			0.000	Shredders	Mosquito	
	Tipulidae		3	0.000	Predators	Cranefly	
	Tabanidae		6	0.000	Predators		
	Simulidae		6			Blackfly	
	Ceratopogonidae	4	6			Bitingmidge	
Ostracoda						DaphniaSe	
Hemiptera	Corixidae				Predators	Waterboat	men
	Nepidae			0.000			
	Gerridae					Waterstride	er
Isopoda	Asellidae	14	8		Shredders		
Amphipod			4		Shredders		
Decapoda			6			Crayfish	
Annelid	Hirudinea	1		0.000		Leech	
Megaloptera	Sialidae		4			Dobsenfly	
Nematomorpha					Parasite	Horsehair	
Tubellaria		5		0.000	Scavenger	Planaria	
	9						
FBI	6.290						
Scraper/Filters	0.000	0/7					
EPT/Chironomidae	0.000	0/88					
% Contribution of Dominant Family	0.677						
EPT Index	0.000						
Community Similarity Indices	0.400						
	0.160						
Total Number Collected	127						

PC5	5/12/2000		
Periphyton	1	Slimes	0
Filamentous Algae	2	Macroinvertebrates	2
Macrophytes	0	Fish	0

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI	Feeding	
Oligochaeta		3		0.000		
Gastropoda	Physa	1	8	0.058	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae	2			Scrapers	Limpet
Bivalvia	· · · · · · · · · · · · · · · · · · ·	6		0.000	Filters	
Ephemeroptera	Canidae	1	7	0.050	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae		9		Predators	
	Calopterygidae	1	5			Stiffantaena
Plecoptera	Perlidae		1		Predators	othanaona
Trichoptera	Hydropsychidae	4	4		Filters	Webspinner
monoptoru	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	1	5		Predators	
Coleoptera	Dytiscidae	1	5			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae		4			Hairycrawling
	Psephenidae		4			Waterpenny
	Gyrinidae		4		Predators	
Distance	Blood-red Chironomidae	3	8		Gathers	4eyea
Diptera	-	3 52	6		-	
	Other Chironomidae	52	6		Gathers	M
	Culicidae		0		Shredders	
	Tipulidae		3		Predators	Cranetly
	Tabanidae	10	6		Predators	
	Simulidae	18	6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	54	8		Shredders	
Amphipod			4		Shredders	
Decapoda		4	6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria		1		0.000	Scavenger	Planaria

TAXA RICHNESS	15
FBI	6.770
Scraper/Filters	0.107
EPT/Chironomidae	0.091
% Contribution of Dominant Family	0.355
EPT Index	2.000
Community Similarity Indices	
CPOM	0.060
Total Number Collected	152

Scrapers 3 Filterers 28 Feeding Feeding Scrapers Filters

PC6	5/14/2000	
Periphyton	1	Slimes
Filamentous Algae	0	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		1
Gastropoda	Physa	2	8	0.178	Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		1			Filters	
Ephemeroptera	Canidae		7		Gathers	Backplate
-	Baetidae		4	0.000	Gathers	1 '
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	5 5
	Libellulidae		9		Predators	1
Zygoptera	Coenagrioidae		9	0.000	Predators	Ť
331	Calopterygidae	2	5			Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	1
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
	Philopotamide		3		Gathers	† '
	Polycentropodidae		6		Filters	Ť
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dvtiscidae	9				Predacious
	Elmidae	-	4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	2	8		Gathers	
	Other Chironomidae	63	6		Gathers	Ť
	Culicidae		-		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	1 1
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae	12	6	0.800	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	23				Waterboatmen
	Nepidae	-		0.000		1
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	1	8	0.089	Shredders	Pillbua
Amphipod		1	4		Shredders	
Decapoda		8	6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae	1	4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria					Scavenger	

0 2 1

TAXA RICHNESS	10
FBI	6.089
Scraper/Filters	2.000
EPT/Chironomidae	0.000 0/65
% Contribution of Dominant Family	0.512
EPT Index	0.000
Community Similarity Indices	
СРОМ	0.020
Total Number Collected	123

# DC6

PC7	5/12/2000	
Periphyton	0	Slimes
Filamentous Algae	0	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ī
Oligochaeta		7		0.000		†
Gastropoda	Physa	11	8	0.822	Scrapers	Lefthanded
•	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		12			Filters	
Ephemeroptera	Canidae	3	7	0.196	Gathers	Backplate
	Baetidae		4	0.000	Gathers	Ī
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	Stout
·	Corduliidae	1	5	0.047	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	Ī
	Calopterygidae	5	5	0.234	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ť
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
•	Philopotamide		3	0.000	Gathers	1 .
	Polycentropodidae		6	0.000	Filters	Ť
	Leptoceridae		1	0.000	Gathers	†
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	1				Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	
Diptera	Blood-red Chironomidae	1	8	0.075	Gathers	
•	Other Chironomidae	23	6	1.290	Gathers	†
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6	0.000	Predators	t í
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6	0.000	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	1				Waterboatmen
·	Nepidae			0.000		Ī
	Gerridae	2		0.000	Predators	Waterstrider
Isopoda	Asellidae	57	8	4.262	Shredders	Pillbug
Amphipod			4		Shredders	
Decapoda		6	6		Predators	
Annelid	Hirudinea	2		0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha		1			Parasite	Horsehair
Tubellaria		2			Scavenge	Planaria

0 2 1

TAXA RICHNESS	15
FBI	7.262
Scraper/Filters	0.917
EPT/Chironomidae	0.125
% Contribution of Dominant Family	0.425
EPT Index	1.000
Community Similarity Indices	
СРОМ	0.500
Total Number Collected	134

PC8	5/3/2000	
Periphyton	1	Slimes
Filamentous Algae	0	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI	Feeding	I	
Oligochaeta		5		0.000		İ	
Gastropoda	Physa	18	8	1.455	Scrapers	Lefthanded	
	Planorbidae			0.000	Scrapers	Ramshorn	
	Lymnaeidae		6	0.000	Scrapers	Righthanded	
	Ancylidae	1		0.000	Scrapers	Limpet	
Bivalvia		3		0.000	Filters		
Ephemeroptera	Canidae	10	7	0.707	Gathers	Backplate	
	Baetidae		4		Gathers		
	Heptageniidae		4	0.000	Scrapers	Scraping	
Anisoptera	Aeshnidae		3		Predators		
	Corduliidae		5		Predators	Longleg	
	Cordulegastridae		3		Predators		
	Libellulidae		9		Predators		
Zygoptera	Coenagrioidae		9		Predators		
	Calopterygidae	20	5			Stiffantaena	
Plecoptera	Perlidae		1		Predators	ļ	
Trichoptera	Hydropsychidae	1	4		Filters	Webspinner	
	Philopotamide		3		Gathers		
	Polycentropodidae		6		Filters		
	Leptoceridae		1	0.000	Gathers		
	Hydroptilidae		4		Filters	Sandsnailshell	
Coleoptera	Dryopidae	2	5		Predators		
	Dytiscidae				Predators		
	Elmidae	3	4		Gathers	Riffle	
	Haliplidae				Predators		
	Psephenidae		4		Scrapers	Waterpenny	
	Gyrinidae	10			Predators	4eyed	
Diptera	Blood-red Chironomidae	12	8	0.970	Gathers		
	Other Chironomidae	13	6	0.788	Gathers	<b>1</b>	
	Culicidae		2		Shredders		
	Tipulidae Tabanidae		3		Predators Predators	Cranetty	
	Simulidae	6	6		Filters	Blackfly	
	Ceratopogonidae	1	6		Gathers	Bitingmidge	
Ostracoda	Ceratopogorildae		0			DaphniaSeedshrimp	
Hemiptera	Corixidae					Waterboatmen	
Петприета	Nepidae			0.000	FIEUdiois	Waterboatmen	
	Gerridae				Predators	Waterstrider	
Isopoda	Asellidae	12	8		Shredders		
Amphipod		12	4		Shredders		
Decapoda		1	6		Predators		
Annelid	Hirudinea	2		0.000		Leech	
Megaloptera	Sialidae	-	4		Predators	1	
Nematomorpha			· ·		Parasite	Horsehair	
Tubellaria		2			Scavenger	1	
TAXA RICHNESS	17		0			Feeding	Feeding
FBI	6.646		Scrapers	19		Scrapers	riiters
Scraper/Filters	1.900		Filterers	10			
EPT/Chironomidae	0.440						
% Contribution of Dominant Family	0.179						
EPT Index	2.000						
Community Similarity Indices	0.004						
CPOM Total Number Collected	0.091						

0 1 0

112

Total Number Collected

PC9	5/10/2000	
Periphyton	0	Slimes
Filamentous Algae	0	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		2		0.000		Ť
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae	1	6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae	8	7	0.324	Gathers	Backplate
	Baetidae		4		Gathers	1 '
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	5 5
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae		9		Predators	+
	Calopterygidae	7	5		Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	7	5		Predators	
	Dytiscidae	3	Ŭ			Predacious
	Elmidae	Ű	4		Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	67	8		Gathers	loyou
2.0.0.0	Other Chironomidae	83	6		Gathers	ł
	Culicidae	00	ő	0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	Conceptogenado					DaphniaSeedshrimp
Hemiptera	Corixidae	9				Waterboatmen
Tiomptold	Nepidae	Ŭ		0.000		That of boat mon
	Gerridae	2				Waterstrider
Isopoda	Asellidae	-	8		Shredders	1
Amphipod	7100111000		4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea		ů	0.000		Leech
Megaloptera	Sialidae	1	4		Predators	
Nematomorpha			т Т		Parasite	Horsehair
Tubellaria		1			Scavenger	
Tubcilalla		!		0.000	Clavenge	

0 1 1

TAXA RICHNESS	11		
FBI	6.740		
Scraper/Filters	#DIV/0!	1/0	
EPT/Chironomidae	0.053		
% Contribution of Dominant Family	0.437		
EPT Index	1.000		
Community Similarity Indices			
СРОМ	0.000	0/50	
Total Number Collected		190	

PC11	5/10/2000	
Periphyton Filamentous Algae	0 2	S

Periphyton	0	Slimes	0
Filamentous Algae	2	Macroinvertebrates	2
Macrophytes	0	Fish	1

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ī
Oligochaeta				0.000		Ī
Gastropoda	Physa	1	8	0.060	Scrapers	Lefthanded
•	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		5			Filters	
Ephemeroptera	Canidae	4	7	0.209	Gathers	Backplate
· · ·	Baetidae	4	4	0.119	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
·	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	Ī
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ī
Trichoptera	Hydropsychidae	4	4	0.119	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t i
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae	1	1	0.007	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae	1	5	0.037	Predators	Longtoed
· ·	Dytiscidae	5		0.000	Predators	Predacious
	Elmidae	1	4	0.030	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	10	8	0.597	Gathers	Ī
	Other Chironomidae	106	6		Gathers	]
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae	1	3	0.022	Predators	Cranefly
	Tabanidae		6	0.000	Predators	]
	Simulidae	1	6	0.045	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	Waterboatmen
	Nepidae			0.000		Ī
	Gerridae	1		0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	14
FBI	5.993
Scraper/Filters	0.100
EPT/Chironomidae	0.112
% Contribution of Dominant Family	0.731
EPT Index	4.000
Community Similarity Indices	
СРОМ	0.020
Total Number Collected	145

# DC11

PC12	5/10/2000	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		+
Gastropoda	Physa		8		Scrapers	Lefthanded
Cuciopoud	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	/ libylidde	2			Filters	Linper
Ephemeroptera	Canidae	4	7		Gathers	Backplate
	Baetidae	13	4		Gathers	Buokpiato
	Heptageniidae	10	4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	ooruping
Theoptora	Corduliidae		5		Predators	l ongleg
	Cordulegastridae		3		Predators	Longlog
	Libellulidae		9		Predators	+
Zygoptera	Coenagrioidae		9		Predators	+
Zygoptera	Calopterygidae		5			Stiffantaena
Plecoptera	Perlidae		1		Predators	Olinantacha
Trichoptera	Hydropsychidae	29	4		Filters	Webspinner
	Philopotamide	25	3		Gathers	webspiniter
	Polycentropodidae		6		Filters	+
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	2	5		Predators	
Coleoptera	Dytiscidae	2	5			Predacious
	Elmidae	7	4		Gathers	Riffle
	Haliplidae	1	4			Hairycrawling
	Psephenidae	1	4		Scrapers	Waterpenny
	Gvrinidae		4	0.000	Predators	Anyod
Diptera	Blood-red Chironomidae	1	8		Gathers	4eyeu
Diptera	Other Chironomidae	68	6		Gathers	+
		00	0	2.914	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6		Predators	Clanelly
	Simulidae	15	6		Filters	Blackfly
	Ceratopogonidae	1	6		Gathers	Bitingmidge
Ostracoda	Ceratopogorildae	1	0			DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Dradatara	Waterboatmen
Heiniptera	Nepidae			0.000		waterboatmen
	Gerridae					Waterstrider
laanada	Asellidae		8			
Isopoda Amphipod	Aseinuae		4		Shredders Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea		U	0.000		Leech
			A			
Megaloptera Nematomorpha	Sialidae		4		Predators Parasite	Horsehair
Tubellaria				0.000	Scavenge	Pianaria

0 2 0

TAXA RICHNESS	11	
FBI	5.329	
Scraper/Filters	0.000	0/46
EPT/Chironomidae	0.667	
% Contribution of Dominant Family	0.476	
EPT Index	3.000	
Community Similarity Indices		
СРОМ	0.000	0/50
Total Number Collected		143

# PC12

PC13	5/8/2000	
Periphyton	0	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	1	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		3		0.000		1
Gastropoda	Physa	2	8		Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	1
Ephemeroptera	Canidae	36	7	2.172	Gathers	Backplate
	Baetidae		4		Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9		Predators	Ī
Zygoptera	Coenagrioidae	36	9	2.793	Predators	
	Calopterygidae		5			Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3	0.000	Gathers	T
	Polycentropodidae		6	0.000	Filters	
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae	12	5	0.517	Predators	Longtoed
	Dytiscidae				Predators	Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae	2		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	5	8	0.345	Gathers	Ī
	Other Chironomidae	20	6		Gathers	
	Culicidae	1		0.000	Shredders	Mosquito
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae	1	6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	3	8		Shredders	
Amphipod		1	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea	4		0.000		Leech
Megaloptera	Sialidae		4			Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria		8		0.000	Scavenge	Planaria

0 2 1

TAXA RICHNESS	14	
FBI	7.293	
Scraper/Filters	#DIV/0!	2/0
EPT/Chironomidae	1.440	
% Contribution of Dominant Family	0.269	
EPT Index	1.000	
Community Similarity Indices		
CPOM	0.040	
Total Number Collected	134	Ļ

# DC12

PC14	5/2/2000	
Periphyton	0	Slimes
Filamentous Algae	2	Macroinvert
Macrophytes	0	Fish

# rtebrates

0 2 2

#### Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		Ť
Gastropoda	Physa	4	8	0.225	Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		21		0.000	Filters	1 .
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
	Baetidae	38	4	1.070	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	Ť
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ī
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t ·
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ť
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
· ·	Dytiscidae					Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	3	8	0.169	Gathers	Ī
	Other Chironomidae	37	6		Gathers	]
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6		Predators	]
	Simulidae	28	6	1.183	Filters	Blackfly
	Ceratopogonidae	5	6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	26	8	1.465	Shredders	Pillbug
Amphipod			4		Shredders	
Decapoda		1	6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	9
FBI	5.930
Scraper/Filters	0.082
EPT/Chironomidae	0.950
% Contribution of Dominant Family	0.233
EPT Index	1.000
Community Similarity Indices	
CPOM	0.360
Total Number Collected	163

PC16	5/2/2000						
Periphyton	0		Slimes	0			
Filamentous Algae	2		Macroinvertebrates	2			
Macrophytes	0		Fish	2			
Magraba	nthos Quailitative Sample	Liet					
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Oligochaeta				0.000			
Gastropoda	Physa	1	8		Scrapers	Lefthanded	
	Planorbidae				Scrapers	Ramshorn	
	Lymnaeidae	1	6		Scrapers	Righthande	ed
	Ancylidae				Scrapers	Limpet	
Bivalvia	0	26	7		Filters	<b>D</b> 1 1 1	
Ephemeroptera	Canidae		7		Gathers	Backplate	
	Baetidae Heptageniidae		4 4		Gathers Scrapers	Soroning	
Anisoptera	Aeshnidae		3		Predators	Scraping	
	Corduliidae	1	5			Longleg	
	Cordulegastridae		3		Predators		
	Libellulidae	1	9		Predators		
Zygoptera	Coenagrioidae	28	9		Predators		
	Calopterygidae	6	5	0.240	Predators	Stiffantaena	а
Plecoptera	Perlidae		1		Predators		
Trichoptera	Hydropsychidae	1	4		Filters	Webspinne	er
	Philopotamide		3		Gathers		
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers Filters	Condonaila	hall
Colooptoro	Hydroptilidae Dryopidae		4 5		Pilters	Sandsnails	nell
Coleoptera	Dytiscidae		5			Predacious	
	Elmidae		4		Gathers	Riffle	
	Haliplidae					Hairycrawli	na
	Psephenidae		4			Waterpenn	
	Gyrinidae				Predators		1
Diptera	Blood-red Chironomidae	7	8		Gathers		
	Other Chironomidae	42	6		Gathers		
	Culicidae		-		Shredders		
	Tipulidae		3		Predators	Cranefly	
	Tabanidae		6		Predators	Dissister	
	Simulidae Ceratopogonidae		6 6		Filters Gathers	Blackfly Bitingmidge	
Ostracoda	Ceratopogorildae		0		Scavender	DaphniaSe	<del>,</del> edshrimn
Hemiptera	Corixidae					Waterboatr	
	Nepidae			0.000		Waterboat	lion
	Gerridae			0.000	Predators	Waterstride	er
Isopoda	Asellidae	31	8	1.984	Shredders	Pillbug	
Amphipod		5	4		Shredders		
Decapoda		1	6		Predators		
Annelid	Hirudinea	1		0.000		Leech	
Megaloptera	Sialidae		4		Predators		
Nematomorpha Tubellaria						Horsehair	
			l	0.000	Scavenger	Fianana	
TAXA RICHNESS	14						
FBI	7.168						
Scraper/Filters	0.074						
EPT/Chironomidae	0.020						
% Contribution of Dominant Family	0.276						
EPT Index	1.000						
Community Similarity Indices							
СРОМ	0.273						
Total Number Collected	152						

PC16	5/8/2000					
Periphyton	1		Slimes	0		
Filamentous Algae	2		Macroinvertebrates	3		
Macrophytes	0		Fish	2		
Macrobe	nthos Quailitative Sample	List				
ORDER	FAMILY		TOLERANCE VALUES		Feeding Group	
Oligochaeta	<b>D</b>	1		0.000		
Gastropoda	Physa	26	8	1.216	Scrapers	Lefthanded
	Planorbidae	4	0		Scrapers	Ramshorn
	Lymnaeidae	1	6		Scrapers	Righthanded
Divelsie	Ancylidae	2			Scrapers	Limpet
Bivalvia	Canidae	2	7		Filters Gathers	Paakalata
Ephemeroptera	-		4			Backplate
	Baetidae Heptageniidae		4 4		Gathers Scrapers	Serening
Anisoptera	Aeshnidae	1	3		Predators	Scraping
Anisopiera		1	5		Predators	Longlog
	Corduliidae Cordulegastridae		3		Predators Predators	Longleg
	Libellulidae	2	9		Predators	┫────┤────
Zygoptera	Coenagrioidae	16	9		Predators	
zygoptera	Calopterygidae	10	5		Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	Guilaniaella
Trichoptera	Hydropsychidae		4		Filters	Webspinner
Incloptera	Philopotamide		3		Gathers	Webspiritier
	Polycentropodidae		6		Filters	
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Longtoed
	Dytiscidae	5	Ŭ		Predators	Predacious
	Elmidae	Ŭ	4		Gathers	Riffle
	Haliplidae	5			Predators	Hairycrawling
	Psephenidae	Ŭ	4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	13	8		Gathers	loyou
	Other Chironomidae	86	6		Gathers	
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae	1	6		Gathers	Bitingmidge
Ostracoda				0.000	Scavengers	DaphniaSeedshrim
Hemiptera	Corixidae				Predators	Waterboatmen
· · ·	Nepidae			0.000		
	Gerridae	İ			Predators	Waterstrider
Isopoda	Asellidae	12	8		Shredders	Pillbug
Amphipod		11	4	0.257	Shredders	Shrimp
Decapoda			6		Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavengers	Planaria
TAXA RICHNESS	16					
FBI	6.766					
Scraper/Filters	13.500					
EPT/Chironomidae	0.010					
% Contribution of Dominant Family	0.467					
EPT Index	1.000					
Community Similarity Indices						
CPOM	0.180					
Total Number Collected	184					

Periphyton         Image	SA1	5/2/2000						
Filamentous Algae         macroinvertebrates         2         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates		0/2/2000						
Filamentous Algae         macroinvertebrates         2         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates         Macroinvertebrates	Periphyton	0		Slimes	0			
Macrophyles         Image: Sample List         Fish         Image: Sample List           ORDER         FAMLY         COUNT         TOLERANCE VALUES         Fish         Image: Sample List           ORDER         FAMLY         COUNT         TOLERANCE VALUES         Fish         Image: Sample List           ORDER         FAMLY         COUNT         TOLERANCE VALUES         Fish         Image: Sample List           ORDER         Planotbidae         0.000         Scrapers         Leftmade           Binahina         Ancylidae         0.000         Scrapers         Rightmade           Ancylidae         1         0.000         Scrapers         Rightmade           Binahina         Ancylidae         1         0.000         Fish           Calphenercoptera         Basticiae         1         4         0.000         Fish           Calphingenildae         1         5         0.000         Predators         Image: Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers         Scrapers <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-			
Macrobenthos Qualitative Sample List         Count         TOLERANCE VALUES FBI           ORDER         FAMLY         COUNT         TOLERANCE VALUES FBI         Lefthanded           Oligochaeta         Physa         12         8         0.571         Strapers         Lefthanded           Gastropoda         Physa         12         8         0.571         Strapers         Lefthanded           Lymnaeidae         6         0.000         Strapers         Lefthanded         1         0.000         Strapers         Lefthanded           Baetidae         1         0.000         Strapers         Lefthanded         1         0.000         Strapers         Strapers         Lefthanded           Anisoptera         Candulgastridae         1         4         0.024         Strapers         Strapers         Longleg           Zygoptera         Coenagricidae         3         0.000         Freators         Vebepinner           Piccoptera         Phytoprilidae         1         5         0.000         Freators         Vebepinner           Tinchoptera         Phitosphinde         1         0.000         Stratars         Vebepinner           Tinchoptera         Phitosphinde         4         0.000         S								
FAMILY         COUNT         TOLERANCE VALUES         Form         Non-           Oligochaela         Physa         12         8         0.571         Strapers         Lefthanded           Castropoda         Physa         12         8         0.571         Strapers         Lefthanded           Castropoda         Physa         12         8         0.571         Strapers         Lefthanded           Castropoda         Ancylidae         1         0.000         Strapers         Lighthanded           Ephemorpletra         Canidae         7         0.000         Gathers         Bactplate           Ancipotera         Acashndae         3         0.000         Foretaros         Carophysica           Condulidas         5         0.000         Fredators         Lufielluidae         Stifantaen           Zygoptera         Calopterylidae         1         5         0.000         Fredators           Piecopterna         Pidrace yndiae         3         0.000         Fredators         Vebspiner           Pidrace yndiae         1         5         0.000         Fredators         Vebspiner           Caroptera, Doropidae         2         5         0.000         Fredators								
FAMILY         COUNT         TOLERANCE VALUES         Form         Non-           Oligochaela         Physa         12         8         0.571         Strapers         Lefthanded           Castropoda         Physa         12         8         0.571         Strapers         Lefthanded           Castropoda         Physa         12         8         0.571         Strapers         Lefthanded           Castropoda         Ancylidae         1         0.000         Strapers         Lighthanded           Ephemorpletra         Canidae         7         0.000         Gathers         Bactplate           Ancipotera         Acashndae         3         0.000         Foretaros         Carophysica           Condulidas         5         0.000         Fredators         Lufielluidae         Stifantaen           Zygoptera         Calopterylidae         1         5         0.000         Fredators           Piecopterna         Pidrace yndiae         3         0.000         Fredators         Vebspiner           Pidrace yndiae         1         5         0.000         Fredators         Vebspiner           Caroptera, Doropidae         2         5         0.000         Fredators	Macrobe	nthos Quailitative Sample	List					
Oligocheata         Physa         12         8         0.001         Physa         12         8         0.571         Scrapers         Ramshorn           Gastropoda         Planorbidae         0         0.000         Scrapers         Ramshorn           Bavlaia         0         1         0.000         Scrapers         Limpet           Bavlaia         1         0.000         Scrapers         Limpet           Bavlaia         1         4         0.000         Scrapers           Anisoptera         Baelidae         4         0.000         Scrapers           Anisoptera         Aeshnidae         3         0.000         Predators           Conduigastridae         9         0.000         Predators         Impet           Picoptera         Conduigastridae         9         0.000         Predators           Trichoptera         Pelipotanide         1         0.000         Predators           Philopotanide         6         0.000         Predators         Impet           Trichoptera         Pelipotanide         1         0.000         Scrapers         Scrapers           Philopotanide         6         0.000         Predators         Scrapers <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Oligocheata         Physa         12         8         0.001         Physa         12         8         0.571         Scrapers         Ramshorn           Gastropoda         Planorbidae         0         0.000         Scrapers         Ramshorn           Bavlaia         0         1         0.000         Scrapers         Limpet           Bavlaia         1         0.000         Scrapers         Limpet           Bavlaia         1         4         0.000         Scrapers           Anisoptera         Baelidae         4         0.000         Scrapers           Anisoptera         Aeshnidae         3         0.000         Predators           Conduigastridae         9         0.000         Predators         Impet           Picoptera         Conduigastridae         9         0.000         Predators           Trichoptera         Pelipotanide         1         0.000         Predators           Philopotanide         6         0.000         Predators         Impet           Trichoptera         Pelipotanide         1         0.000         Scrapers         Scrapers           Philopotanide         6         0.000         Predators         Scrapers <t< td=""><td>ORDER</td><td>FAMILY</td><td>COUNT</td><td>TOLERANCE VALUES</td><td>FBI</td><td></td><td></td><td></td></t<>	ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Gastropoda         Physa         12         8         0.571 (Strapers Lethanded)           Ummaeidae         0.000 (Strapers Righthanded)         0.000 (Strapers Righthanded)           Bivahia         -         4         0.000 (Strapers Righthanded)           Anisoptera         Aeshnidae         -         3         0.000 (Predators Incipie)           Cordulidize         -         9         0.000 (Predators Incipie)         -           Zygoptera         Coenagricidae         -         1         0.000 (Predators Incipie)         -           Piecoptera         Peridae         1         0.000 (Predators Incipie)         -         -           Trichoptera         Pehidae         -         1         0.000 (Predators Incipie)         -           Coloptera	Oligochaeta							
Planorhidae         Control         Banchidae         Control         Ramshorn           Biavalia         Ancylidae         1         0.000         Scrapers         Limpet           Biavalia         1         7         0.000         Gathers         Backlade           Ephemeroptera         Ganidae         1         4         0.000         Gathers         Backlade           Anisoptera         Backlade         1         4         0.000         Gathers         Backlade           Anisoptera         Aeshnidae         1         4         0.000         Predators           Corduligaestridae         1         5         0.000         Predators           Corduligaestridae         9         0.000         Predators         Imperiation           Picoptera         Calopterygidae         1         5         0.000         Predators           Prediode         1         0.000         Predators         Imperiation         Imperiation           Picoptera         Pehilopctanide         6         0.000         Filters         Imperiation           Conduegatidae         1         0.000         Gathers         Imperiation         Imperiation           Dicoptera         Philopcta		Physa	12	8	0.571	Scrapers	Lefthanded	
Ancylidae         Image: Straying         Unpet         Unpet           Ephemeroptera         Canidae         7         0.000 [Strapers]         Enders           Ephemeroptera         Baetidae         4         0.000 [Strapers]         Exacipate           Heptageniidae         1         4         0.000 [Strapers]         Scraping           Anisoptera         Assinidae         3         0.000 [Predators         Image: Straping           Cordulidae         3         0.000 [Predators         Image: Straping           Cordulidae         9         0.000 [Predators         Image: Straping           Zygoptera         Caeragrioidae         9         0.000 [Predators         Image: Straping           Caeragrioidae         1         5         0.000 [Predators         Image: Straping           Caeragrioidae         1         0.000 [Predators         Image: Straping         Image: Straping           Trichoptera         Perificae         1         0.000 [Strapers]         Image: Straping           Trichoptera         Phytopotanide         3         0.000 [Strapers]         Image: Straping           Trichoptera         Phytopotanide         4         0.000 [Straters]         Image: Straping           Calcoptera         Drytopidae	· · ·					Scrapers	Ramshorn	
Bivalvia         Condea         7         0.000 (Gathers         Encide           Ephemeroptera         Baetidae         4         0.000 (Gathers         Baetidae           Anisoptera         Aeshnidae         1         4         0.000 (Bathers         Image: Seraing (Dathers)           Anisoptera         Aeshnidae         1         4         0.024 (Scrapers)         Scraping (Dathers)           Cordulegastridae         9         0.000 (Predators)         Image: Seraing (Dathers)         Image: Seraing (Dathers)           Zygoptera         Coenagricidae         9         0.000 (Predators)         Sittinatena           Calcolerygidae         1         5         0.030 (Predators)         Sittinatena           Plecoptera         Perlidae         1         0.000 (Predators)         Sittinatena           Trichoptera         Perlidae         4         0.000 (Predators)         Image: Seraing (Dathers)           Coleoptera         Perlidae         6         0.000 (Predators)         Image: Seraing (Dathers)           Coleoptera         Perlidae         1         0.000 (Predators)         Sittinatena           Coleoptera         Dypoptitidae         4         0.000 (Predators)         Sittinatena           Coleoptera         Dypoptitidae <td></td> <td>Lymnaeidae</td> <td></td> <td>6</td> <td></td> <td></td> <td>Righthande</td> <td>d</td>		Lymnaeidae		6			Righthande	d
Ephemeroptera         Canidae         7         0.000 [Cathers]         Backplate           Heptagenildae         1         4         0.000 [Cathers]         Backplate           Anisoptera         Aeshnidae         3         0.000 [Predators]         Image: Consultance           Anisoptera         Cordulidae         5         0.000 [Predators]         Image: Consultance           Cordulidae         9         0.000 [Predators]         Image: Consultance         Image: Consultance           Zygoptera         Coenagrioidae         9         0.000 [Predators]         Image: Consultance           Catopterygdae         1         5         0.000 [Predators]         Image: Consultance           Plecoptera         Perificae         1         0.000 [Predators]         Image: Consultance           Trachoptera         Perificae         1         0.000 [Predators]         Image: Consultance           Trachoptera         Phylopotanide         6         0.000 [Predators]         Image: Consultance           Coleoptera         Dryopidae         5         0.000 [Predators]         Image: Consultance           Coleoptera         Dryopidae         6         0.000 [Predators]         Image: Consultance           Coleoptera         Dryopidae         6		Ancylidae					Limpet	
Bactidae         4         0.000 Gathers           Anisopiera         Aeshnidae         1         4         0.024 Scrapers         Scrapers           Anisopiera         Aeshnidae         3         0.000 Predators         Iongleg           Cordulegastridae         3         0.000 Predators         Iongleg           Libelkulidae         9         0.000 Predators         Iongleg           Zygoptera         Caenagrioidae         1         5         0.030 Predators           Calopterygidae         1         5         0.030 Predators         Ionglegastriana           Plecoptera         Perifidae         1         0.000 Fredators         Ionglegastriana           Plopostamide         3         0.000 Stathers         Ionglegastriana         Ionglegastriana           Coloptamide         6         0.000 Fredators         Ionglegastriana         Ionglegastriana           Coloptamide         6         0.000 Fredators         Ionglegastriana         Ionglegastriana           Coloptamide         1         0.000 Stathers         Iters         Ionglegastriana           Coloptamide         4         0.000 Fredators         Ionglegastriana           Dytopdiae         5         0.000 Predators         Inglegastriana			1					
Heptagenidae         1         4         0.024 Scrapers         Scraping           Anisopiera         Aeshnidae         3         0.000 Predators         Image: Condulidae         5         0.000 Predators         Image: Condulidae         1         5         0.000 Predators         Image: Condulidae         1         5         0.000 Predators         Image: Conduct C	Ephemeroptera	Canidae		7	0.000	Gathers	Backplate	
Anisoptera         Aeshnidae         Image: Solution of the solution		Baetidae		4				
Cordulidae         5         0.000         Predators         Longleg           Cordulidae         3         0.000         Predators         Longleg           Zygoptera         Coenagrioldae         9         0.000         Predators           Catopterygidae         1         5         0.030         Predators           Plecoptera         Perildae         1         0.000         Predators           Trichoptera         Perildae         1         0.000         Fredators           Polycentropodidae         6         0.000         Filters         Image: Status           Philopotamide         3         0.000         Filters         Image: Status           Coleoptera         Dryopidae         5         0.000         Fredators         Longloed           Coleoptera         Dryopidae         5         0.000         Predators         Longloed           Elmidae         4         0.000         Predators         Kiffen           Haliplidae         4         0.000         Predators         Mareprenny           Gyrinidae         5         6         2.071         Gathers           Diptera         Biod-red Chironomidae         5         6         0.000			1				Scraping	
Cordulegastridae         3         0.000         Predators         0.000           Zygoptera         Coenagrioldae         9         0.000         Predators         1           Catopterygidae         1         5         0.030         Predators         1           Plecoptera         Peridae         1         0.000         Predators         1           Plecoptera         Peridae         1         0.000         Predators         1           Plotoptera         Pridopotanide         3         0.000         Gathers         1           Polycentropodidae         6         0.000         Filters         Sandsnaibshell           Coleoptera         Dryopidae         5         0.000         Predators         1           Coleoptera         Dryopidae         5         0.000         Predators         1           Coleoptera         Dryopidae         4         0.000         Predators         1	Anisoptera							
Libelluidae         9         0.000         Predators           Zygoptera         Calopterygidae         1         5         0.030         Predators           Plecoptera         Perildae         1         0.000         Predators         Stiffantaena           Plecoptera         Perildae         1         0.000         Predators         Iterators           Tichoptera         Hydropsychidae         4         0.000         Filters         Iterators           Polycentropodidae         6         0.000         Filters         Iterators         Iterators           Coleoptera         Dryopidae         4         0.000         Filters         Sandsnaisheil           Coleoptera         Dryopidae         5         0.000         Predators         Riffle           Coleoptera         Dryopidae         4         0.000         Predators         Predators           Coleoptera         Dryopidae         4         0.000         Predators         Hairycrawing           Coleoptera         Dryopidae         4         0.000         Predators         Hairycrawing           Coleoptera         Dryopidae         4         0.000         Predators         Hairycrawing           Diftera <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td>Longleg</td><td></td></t<>		-					Longleg	
Zygoptera         Coenagrioidae         9         0.000         Predators           Plecoptera         Peridae         1         5         0.030         Predators           Plecoptera         Peridae         1         0.000         Predators         Implementation           Trichoptera         Hydropsychidae         4         0.000         Filters         Webspinner           Philopotamide         6         0.000         Galiners         Implementation         Implementation           Coleoptera         Prolycentropodidae         6         0.000         Filters         Sansanishell           Coleoptera         Dryopidae         5         0.000         Predators         Indianalishell           Coleoptera         Dytiscidae         4         0.000         Predators         Indianalishell           Coleoptera         Dytiscidae         4         0.000         Galination         Indianalishell         Indianalishell           Coleoptera         Dytiscidae         4         0.000         Scrapers         Waterpenny           Colination         Biood-red Chironomidae         19         8         0.905         Gathers         Cathers         Cathers         Matyrotitida         Indianalis         Indianalis <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Calorieryglidae         1         5         0.030         Predators         Stiffantaena           Plecoptera         Peridae         1         0.000         Predators         Image: Construction of the state of the s								
Plecopera         Peridae         1         0.000         Predators           Trichoptera         Hydropsychidae         4         0.000         Filters         Webspinner           Philopotamide         3         0.000         Gathers         Image: Construction of the second of the s	Zygoptera	0						
Trichoptera         Hydropsychidae         4         0.000         Filters         Webspinner           Philopotamide         3         0.000         Gathers             Polycentropodidae         6         0.000         Gathers             Leptoceridae         1         0.000         Gathers         Sandsnailshell           Coleoptera         Dryopidae         5         0.000         Predators         Longtoed           Dryopidae         5         0.000         Predators         Longtoed            Elmidae         4         0.000         Gathers         Riffle           Halipidae         4         0.000         Predators         Headcous           Culcidae         4         0.000         Predators         Headcous           Other Chironomidae         58         6         2.071         Gathers            Culcidae         0000         Predators         Granefly         Gathers             Culcidae         3         0.000         Predators         Cranefly             Culcidae         6         0.000         Gathers         Blackfly			1				Stiffantaena	1
Philopotamide         3         0.000         Gathers           Polycentropodidae         6         0.000         Filters           Leptoceridae         1         0.000         Gathers           Coleoptera         Dryopidae         5         0.000         Predators         Predacious           Dytiscidae         4         0.000         Predators         Predacious           Elmidae         4         0.000         Standers         Riffle           Halipidae         0.000         Predators         Predacious           Cyrinidae         4         0.000         Standers         Ryed           Diptera         Blood-red Chironomidae         19         8         0.905         Gathers           Culicidae         0.000         Predators         Keyed         Maspanida         10         1000         Predators         Keyed         1000         Predators         Keyed         1000         Predators         Keyed         1000         1000         Predators         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         10000         1000         10000 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
Polycentropodidae         6         0.000         Filters         sandsnailsheil           Leptoceridae         1         0.000         Filters         Sandsnailsheil           Coleoptera         Dryopidae         5         0.000         Fredators         Longtoed           Dytsicidae         0         0.000         Fredators         Longtoed         Image: Coleoptera           Dytsicidae         0         0.000         Fredators         Riffle         Image: Coleoptera           Elmidae         4         0.000         Gathers         Riffle         Image: Coleoptera           Elmidae         4         0.000         Fredators         Hailpildae         0.000         Fredators         Hailpildae           Mailpildae         1800d-red         0.000         Fredators         Hailpildae         0.000         Scrapers         Waterpenny           Culicidae         0.000         Simulidae         19         8         0.905         Gathers         Image: Coleopteras         Image: Coleopteras         Gathers         Image: Coleopteras         Caleopteras         Caleopteras         Caleopteras         Gathers         Image: Coleopteras         Gathers         Image: Coleopteras         Caleoptera         Coleopteras         Gathers	Trichoptera						Webspinne	r
Leptoceridae     1     0.000     Gathers     Sandsnailshell       Coleoptera     Dryopidae     5     0.000     Predators     Longtoed       Dytiscidae     4     0.000     Predators     Predators     Verdators       Elmidae     4     0.000     Predators     Predators     Verdators       Haliplidae     0.000     Predators     Hairycrawling       Psephenidae     4     0.000     Scrapers     Waterpenny       Gyrinidae     0.000     Predators     Longtoed     1       Diptera     Blood-red Chironomidae     19     8     0.905     Gathers       Culicidae     0.000     Predators     Canelly     1       Tabanidae     6     0.000     Predators     Canelly       Tabanidae     6     0.000     Predators     Elmingidge       Ostracoda     Cratopogonidae     6     0.000     Predators       Caralegae     0.000     Predators     Blockfly       Simulidae     36     6     1.266     Filters       Simulidae     6     0.000     Predators     Vaterboatmen       Sorpada     Aselidae     16     8     0.762     Shreders       Sopoda     Aselidae     16     8								
Hydroptilidae40.000FittersSandsnalishellColeopteraDryopidae50.000PredatorsLongtoedDytiscidae0.000GathersRiffleElmidae40.000GathersRiffleHalipildae0.000PredatorsHairycrawingPsephenidae40.000ScrapersWaterpennyDipteraBlood-red Chironomidae1980.000PredatorsQuincidae1980.000StratersCulicidae0.000Straters1000FredatorsCulicidae30.000StreddersMosquitoTabanidae3661.286FiltersBlackfyCaractopogonidae60.000GathersBitagnidgeOstracoda60.000ScavengerDaphniaSeedshrimpHemipteraCorixidae1680.762ShreddersNepidae1680.762ShreddersShrimpDecapoda2340.548ShreddersShrimpDecapoda2340.648ShreddersShrimpDecapoda2340.000PredatorsCarafishAmplipod2340.648ShreddersShrimpDecapoda260.071PredatorsCardishAnnelidHirudinea40.000PredatorsCardishMegalopteraSialidae40.000Predators </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Coleoptera         Dryopidae         5         0.000         Predators         Longted           Dytiscidae         0.000         Predators         Predators         Predators         Predators           Elmidae         4         0.000         Gathers         Riffle         Image: State				-				
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CPOM 0.138 0 0								
	СРОМ	0,138						
			1					

SC1	5/10/2000	
Periphyton	0	Slimes
Filamentous Algae	2	Macroin
Macrophytes	0	Fish

0 2 2 nvertebrates

### Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ī
Oligochaeta		1		0.000		Ī
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		1			Filters	1 '
Ephemeroptera	Canidae	10	7	0.660	Gathers	Backplate
-	Baetidae		4		Gathers	1 .
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
•	Corduliidae		5		Predators	Longleg
	Cordulegastridae		3		Predators	5 5
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae	2	9		Predators	+
	Calopterygidae	14	5			Stiffantaena
Plecoptera	Perlidae	1	1		Predators	•
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae		•			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae	1				Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae		Ŧ			
Diptera	Blood-red Chironomidae	3	8		Gathers	Foyca
Dipteru	Other Chironomidae	22	6		Gathers	ł
	Culicidae		•		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	oranony
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	Octatopogonidae		0			DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
Tiemptera	Nepidae			0.000		Walerboalmen
	Gerridae					Waterstrider
Isopoda	Asellidae	52	8		Shredders	
Amphipod		52	4		Shredders	
Decapoda		2	6		Predators	
Annelid	Hirudinea	2	U	0.113		Leech
Megaloptera	Sialidae		4		Predators	
	อเลเนลย		4		Predators	Horsehair
Nematomorpha		4				
Tubellaria		1		0.000	Scavenger	Pianaria

TAXA RICHNESS	12	
FBI	7.009	
Scraper/Filters	0.000 0/	1
EPT/Chironomidae	0.440	
% Contribution of Dominant Family	0.473	
EPT Index	2.000	
Community Similarity Indices		
СРОМ	0.520	
Total Number Collected	110	

# SC1

SD1	5/4/2000	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		5		0.000		Ť
Gastropoda	Physa	2	8	0.143	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae		9	0.000	Predators	1
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	Ť
Trichoptera	Hydropsychidae		4		Filters	Webspinner
-	Philopotamide		3	0.000	Gathers	1 '
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1		Gathers	Ť
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Lonatoed
	Dytiscidae		-			Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	105	8	7.500	Gathers	
	Other Chironomidae	4	6	0.214	Gathers	1
	Culicidae		-	0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6	0.000	Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		Ť
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod		1	4		Shredders	
Decapoda			6	0.000	Predators	Cravfish
Annelid	Hirudinea		-	0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria		1			Scavenge	

0 3 0

TAXA RICHNESS	5	
FBI	7.893	
Scraper/Filters	#DIV/0!	2/0
EPT/Chironomidae	0.000	0/109
% Contribution of Dominant Family	0.897	
EPT Index	0.000	
Community Similarity Indices		
СРОМ	0.020	
Total Number Collected		117

SF1	5/9/2000	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		1		0.000		1
Gastropoda	Physa	2	8	0.178	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		42			Filters	
Ephemeroptera	Canidae	16	7	1.244	Gathers	Backplate
	Baetidae	1	4	0.044	Gathers	Ī
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	Ī
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	1
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae		9	0.000	Predators	Ī
	Calopterygidae	2	5	0.111	Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	]
Trichoptera	Hydropsychidae	11	4		Filters	Webspinner
	Philopotamide		3	0.000	Gathers	Ī
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae	1	5	0.056	Predators	Longtoed
	Dytiscidae	1				Predacious
	Elmidae	3	4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	3	8	0.267	Gathers	I
	Other Chironomidae	17	6		Gathers	
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae	26	6		Filters	Blackfly
	Ceratopogonidae	2	6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	6	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 2 0

TAXA RICHNESS	15
FBI	6.056
Scraper/Filters	0.025
EPT/Chironomidae	1.400
% Contribution of Dominant Family	0.313
EPT Index	3.000
Community Similarity Indices	
СРОМ	0.571
Total Number Collected	134

SF2	5/7/2000	
Periphyton	1	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta				0.000		1
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
_	Lvmnaeidae		6		Scrapers	Righthanded
	Ancylidae		-		Scrapers	Limpet
Bivalvia				0.000	Filters	
Ephemeroptera	Canidae	16	7		Gathers	Backplate
	Baetidae	-	4		Gathers	+ '
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae	1	3		Predators	
	Corduliidae		5		Predators	Lonalea
	Cordulegastridae		3		Predators	5 5
_	Libellulidae		9		Predators	4
Zygoptera	Coenagrioidae		9		Predators	+
	Calopterygidae	4	5			Stiffantaena
Plecoptera	Perlidae		1		Predators	
Trichoptera	Hydropsychidae	1	4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	1
	Dvtiscidae	1	, v			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	1	8		Gathers	loyou
Diptora	Other Chironomidae	41	6		Gathers	+
	Culicidae		Ŭ		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	oraliony
	Simulidae	36	6		Filters	Blackfly
	Ceratopogonidae	3	6		Gathers	Bitingmidge
Ostracoda	Colucepegenidue	Ũ				DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
Tiemptera	Nepidae			0.000		Waterboatmen
	Gerridae					Waterstrider
Isopoda	Asellidae	18	8		Shredders	
Amphipod	Ascillad	10	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea		0	0.000		Leech
Megaloptera	Sialidae	-	4		Predators	
Nematomorpha		1	+		Parasite	Horsehair
Tubellaria					Scavenge	
		<u> </u>	l	0.000	Scaverige	

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0.336	
2.000	
0.060	
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# SE2

UN1	5/4/2000	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	2	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		2		0.000		+
Gastropoda	Physa	1	8		Scrapers	l efthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae	2	6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	741091440				Filters	Linpot
Ephemeroptera	Canidae		7		Gathers	Backplate
	Baetidae		4		Gathers	Daenpiato
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5		Predators	Lonalea
	Cordulegastridae		3		Predators	33
	Libellulidae		9		Predators	ł
Zygoptera	Coenagrioidae		9		Predators	+
	Calopterygidae		5			Stiffantaena
Plecoptera	Perlidae		1		Predators	
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	ł
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	2	5		Predators	
	Dytiscidae		Ŭ			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae		-			Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae	1	-		Predators	
Diptera	Blood-red Chironomidae	2	8		Gathers	
	Other Chironomidae	12	6		Gathers	+
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae	48	6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda			-			DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	77	8		Shredders	
Amphipod			4		Shredders	
Decapoda		6	6		Predators	
Annelid	Hirudinea	Ť	Ť	0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha		1	· ·		Parasite	Horsehair
Tubellaria		<u> </u>			Scavenger	

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TAXA RICHNESS	10
FBI	7.053
Scraper/Filters	0.063
EPT/Chironomidae	0.000 0/14
% Contribution of Dominant Family	0.503
EPT Index	0.000
Community Similarity Indices	
CPOM	0.735
Total Number Collected	153

# LIN1

SF3	5/7/2000	
Periphyton	2	Slimes
Filamentous Algae	3	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		37		0.000		Ť
Gastropoda	Physa	1	8	0.080	Scrapers	Lefthanded
·	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae	15	7	1.050	Gathers	Backplate
	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae	2	9	0.180	Predators	
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ť
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
•	Philopotamide		3	0.000	Gathers	1 .
	Polycentropodidae		6	0.000	Filters	
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
t	Dytiscidae					Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae	1		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	1	8	0.080	Gathers	
	Other Chironomidae	17	6	1.020	Gathers	Ť
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae	1	6	0.060	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
i	Nepidae			0.000		Ť
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	63	8	5.040	Shredders	Pillbug
Amphipod			4	0.000	Shredders	Shrimp
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria		1			Scavenge	Planaria

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TAXA RICHNESS	9	
FBI	7.510	
Scraper/Filters	#DIV/0! 1/0	)
EPT/Chironomidae	0.833	
% Contribution of Dominant Family	0.457	
EPT Index	1.000	
Community Similarity Indices		
CPOM	0.306	
Total Number Collected	138	

# SE3

WD1	5/4/2000	
Periphyton	0	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ī
Oligochaeta		11		0.000		Ť
Gastropoda	Physa	7	8	0.800	Scrapers	Lefthanded
•	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae	2	6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae	3	7	0.300	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae	1	3	0.043	Predators	
·	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	†
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ť
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
•	Philopotamide		3	0.000	Gathers	1 '
	Polycentropodidae		6	0.000	Filters	Ť
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
	Dytiscidae	1		0.000	Predators	Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae	1		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	1	8	0.114	Gathers	
•	Other Chironomidae	38	6	3.257	Gathers	Ť
	Culicidae	1		0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6	0.000	Predators	
	Simulidae	1	6	0.086	Filters	Blackfly
	Ceratopogonidae	2	6		Gathers	Bitingmidge
Ostracoda		17		0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
· ·	Nepidae			0.000		Ī
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	13	8	1.486	Shredders	Pillbug
Amphipod		1	4		Shredders	
Decapoda		1	6	0.086	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

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TAXA RICHNESS	16
FBI	6.571
Scraper/Filters	9.000
EPT/Chironomidae	0.077
% Contribution of Dominant Family	0.376
EPT Index	1.000
Community Similarity Indices	
СРОМ	0.020
Total Number Collected	101

Periphyton	1	Slimes	0
Filamentous Algae	1	Macroinvertebrates	3
Macrophytes	0	Fish	1

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		Ť
Gastropoda	Physa	1	8	0.069	Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae		-	0.000	Scrapers	Limpet
Bivalvia		12			Filters	
Ephemeroptera	Canidae	1	7		Gathers	Backplate
	Baetidae		4		Gathers	
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5		Predators	Lonalea
	Cordulegastridae		3		Predators	5 5
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae	1	9		Predators	
	Calopterygidae	4	5		Predators	Stiffantaena
Plecoptera	Perlidae		1		Predators	†
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
001000010	Dytiscidae		<b>.</b>			Predacious
	Elmidae		4		Gathers	Riffle
	Haliplidae	1				Hairycrawling
	Psephenidae	·	4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	13	8		Gathers	
	Other Chironomidae	69	6		Gathers	+
	Culicidae		, i i i i i i i i i i i i i i i i i i i		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae	21	6		Filters	Blackfly
	Ceratopogonidae	3	6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	1	8		Shredders	
Amphipod		2	4		Shredders	
Decapoda		-	6		Predators	
Annelid	Hirudinea	1	~	0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria		2			Scavenger	
		۷		0.000	Scaveriger	

FBI 6 224
0.224
Scraper/Filters 0.030
EPT/Chironomidae 0.012
% Contribution of Dominant Family 0.523
EPT Index 1.000
Community Similarity Indices
<b>CPOM</b> 0.020
Total Number Collected 132

### WF1

WF2	5/5/2000	
Periphyton	0	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		14		0.000		Ť
Gastropoda	Physa	24	8	1.920	Scrapers	Lefthanded
•	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae	1	6	0.060	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		13		0.000	Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
	Baetidae		4	0.000	Gathers	Ī
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
·	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae	1	9	0.090	Predators	Ť
	Calopterygidae	4	5	0.200	Predators	Stiffantaena
Plecoptera	Perlidae		1	0.000	Predators	Ť
Trichoptera	Hydropsychidae	2	4	0.080	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	
	Polycentropodidae		6	0.000	Filters	
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Longtoed
•	Dytiscidae			0.000	Predators	Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae	1		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	
Diptera	Blood-red Chironomidae	3	8	0.240	Gathers	
•	Other Chironomidae	49	6	2.940	Gathers	Ť
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6	0.000	Predators	1 -
	Simulidae	14	6	0.840	Filters	Blackfly
	Ceratopogonidae		6	0.000	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
•	Nepidae			0.000		Ť
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod		1	4	0.040	Shredders	Shrimp
Decapoda		1	6	0.060	Predators	Cravfish
Annelid	Hirudinea	1		0.000		Leech
Megaloptera	Sialidae	1	4	0.000	Predators	Dobsenfly
Nematomorpha		1			Parasite	Horsehair
Tubellaria		2			Scavenge	Planaria

TAXA RICHNESS	14
FBI	6.470
Scraper/Filters	0.862
EPT/Chironomidae	0.038
% Contribution of Dominant Family	0.377
EPT Index	1.000
Community Similarity Indices	
СРОМ	0.020
Total Number Collected	130

WATER	QUALITY RESULTS	FROM AUGL	JST 199	99											
Site	Water body				Conductivity (umhos)	Ha	DO (ma/L)	% DO Saturation	Ammonia N (mg/L)	Total Kieldahl N (mg/L)	Nitrate N (mg/L)	Phosphorus (ma/L)	BOD (ma/L)	Suspended solids (mg/L)	E, coli (per 100 mL)
PC1	Pigeon Creek	08/06/1999		31	889	8.9	5.53	74	0.68	1.0	0.68	0.41	<2.8	9	12
PC2	Pigeon Creek	08/07/1999		27.6	1980	8.6	5.15	65	0.33	1.8	0.41	0.66	<2.1	25	36
PC3	Pigeon Creek	08/07/1999	7:45	25.4	2117	8.5	4.08	50	0	1.0	<0.05	0.68	<2.1	13	92
PC4	Pigeon Creek	08/07/1999	9:15	28.3	2144	8.7	4.89	63	0.95	1.1	< 0.05	0.67	<2.1	13	70
PC5	Pigeon Creek	08/07/1999	9:45	27.8	2153	8.5	5.08	65	0.15	1.4	< 0.05	0.68	<2.1	14	60
PC6	Pigeon Creek	08/09/1999	8:45	24.9	1599	8.5	1.41	17	2.88	2.0	0.68	0.73	3.1	13	24000
PC7	Pigeon Creek	08/09/1999	10:45	24.9	1776	8.44	2.46	30	0.38	<1.0	0.34	0.7	<3.0	36	16000
PC8	Pigeon Creek	08/09/1999	14:30	25.6	2136	8.49	3.02	37	2.27	2.1	0.49	0.78	<3.0	68	1000
PC8 dup	-								0.44	2.1	0.53	0.78	<3.0	63	300
PC9	Pigeon Creek	08/10/1999	10:15	27.6	1641	8.56	4.51	57	0.41	1.7	1.40	0.98	<2.8	72	210
PC11	Pigeon Creek	08/11/1999	11:30	26	1900		5.3	65	1.01	<1.0	0.68	0.44	<2.8	34	180
PC12	Pigeon Creek	08/12/1999	16:00	29.5	1500	8.37	7.4	97	0.67	2.5	0.54	0.16	<2.8	23	295
PC12 dup	)								0.54	1.1	0.8	0.19	<2.8	26	300
PC13	Pigeon Creek	08/13/1999	11:00	28	1250		6.8	87	1.37	<1.0	0.65	0.21	<5.0	35	420
PC14	Pigeon Creek	08/15/1999	13:05	28	590	8.66	16	204	0.73	<1.0	1.60	0.48	<3.0	20	8
PC15	Pigeon Creek	08/05/1999	16:30	21.5	436	8.78	5.9	67	0.45	2.8	1.60	0.47	<2.8	8	0
PC16	Pigeon Creek	08/05/1999	11:15	27.5	720	7.90	4.99	63	2.75	2.8	< 0.05	0.4	<2.8	12	0
LC1	Locust Creek	08/08/1999	13:00	23.6	412	9.02	3.01	35	0.55	2.0	<0.05	0.59	<3.0	27	880
LC2	Locust Creek	08/10/1999	8:00	23.7	394	8.51	2.77	33	1.14	3.2	<0.05	0.66	<5.0	140	610
LP1	Little Pigeon Creek	08/08/1999	11:15	24.1	201	8.82	3.38	40	0.34	2.1	1.20	0.6	4.3	51	1100
LP2	Little Pigeon Creek			23.5	327	8.43	1.57	18	0.61	2.4	<0.05	0.59	<3.0	9	320
BC1	Bluegrass Creek			24.2	1946	8.56	4.87	58	1.92	<1.0	<0.05	0.56	<3.0	5	3500
BC2	Bluegrass Creek	08/10/1999	9:30	33.9	2191	9.35	6.34	83	1.15	1.4	<0.05	0.55	<3.0	19	540
BC3	Bluegrass Creek			25.9	478	8.59	3.63	45	1.6	<1.0	<0.05	0.29	<2.8	51	27
WD1	Weinsheimer Ditch			25.5	400	7.63	2.8	34	1.55	<1.0	<0.05	0.12	3.7	69	200
SD1	Stollberg Ditch	08/13/1999		25	1130		2.1	25	1.13	4.6	5.40	2.9	7.1	70	70
UN1	Unnamed Tributary			28	1120	8.00	6.5	83	0.96	1.1	<0.05	0.08	<2.8	61	43
SC1	Squaw Creek	08/11/1999		25	3800		7.7	93	1.04	1.8	<0.05	0.3	<2.8	8	67
BG1	Big Creek	08/14/1999		28.5	3225	8.26	5.6	72	0.36	<1.0	<0.05	0.05	<2.8	11	98
BG2	Big Creek	08/13/1999		27.5	3200		7	89	0.26	<1.0	<0.05	0.02	<5.0	60	10
SF1	Smith Fork	08/14/1999		25	1400		11.3	137	0.49	1.3	<0.05	0.07	<2.8	5	110
SF2	Smith Fork	08/14/1999		29	1780	8.60	9.8	127	0.22	<1.0	<0.05	0.07	<2.8	10	25
SF3	Smith Fork	08/14/1999		28	2000	8.33	7.4	95	0.35	<1.0	<0.05	0.09	<2.8	2	54
WF1	West Fork	08/15/1999		24	830	8.81	13.5	160	0.44	<1.0	2.40	1.4	<3.0	24	230
WF2	West Fork	08/15/1999		28	960	9.14	0	256	0.56	<1.0	6.70	0.6	<3.0	20	540
WF3	West Fork	08/15/1999		17	700	8.12	6.7	69	0.42	1.4	<0.05	0.06	<3.0	22	270
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# DIAGNOSTIC STUDY OF PIGEON CREEK WATERSHED

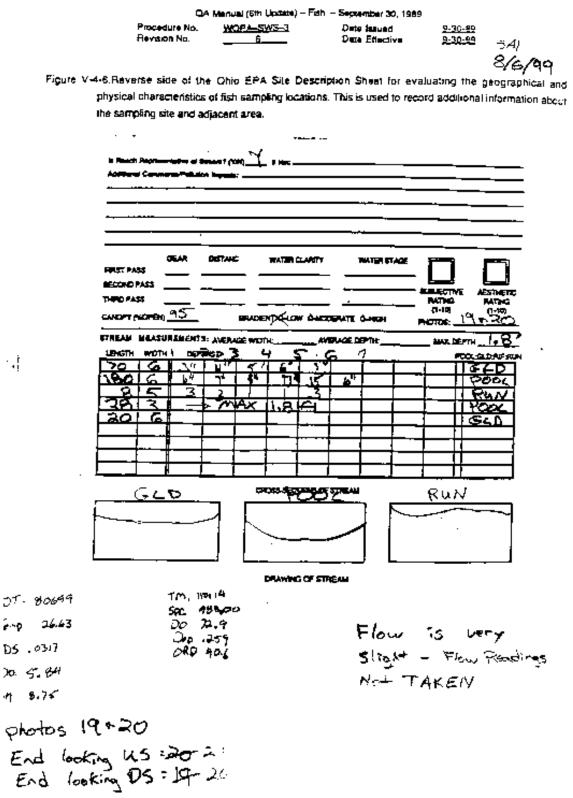
Harza Engineering, Inc.

August 1999 Data Sheets:

Qualitative Habitat Evaluation Index

Rapid Bioassessment Protocol II for Macroinvertebrates

Flow measurements, on-site tests, physical description

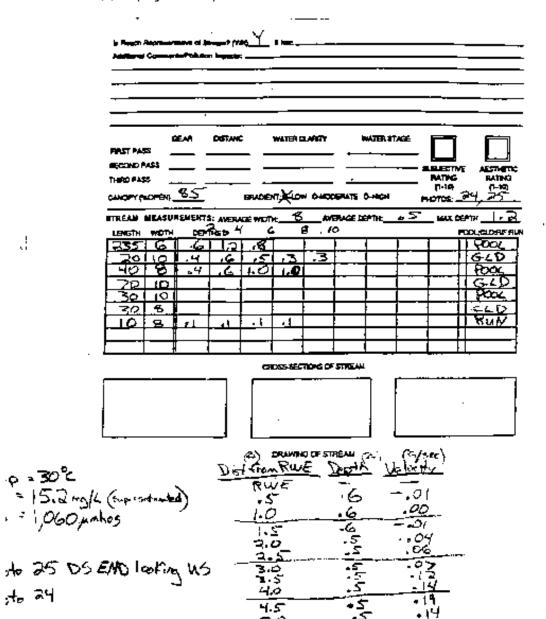


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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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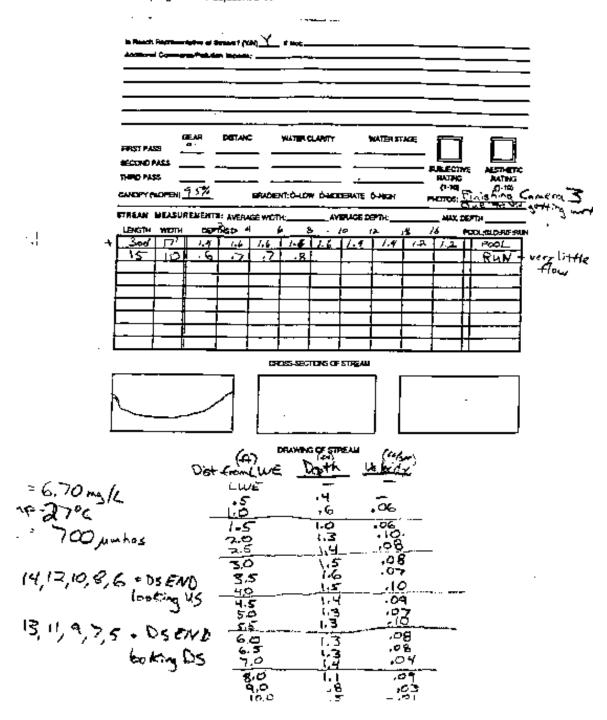
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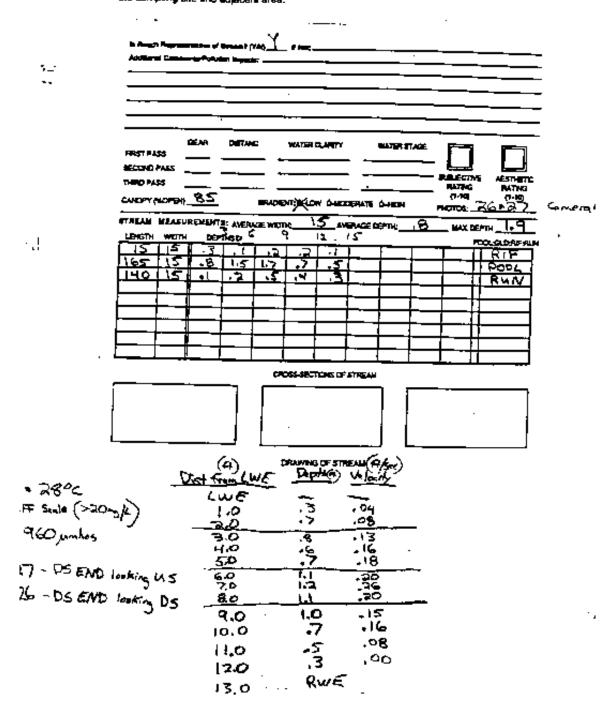


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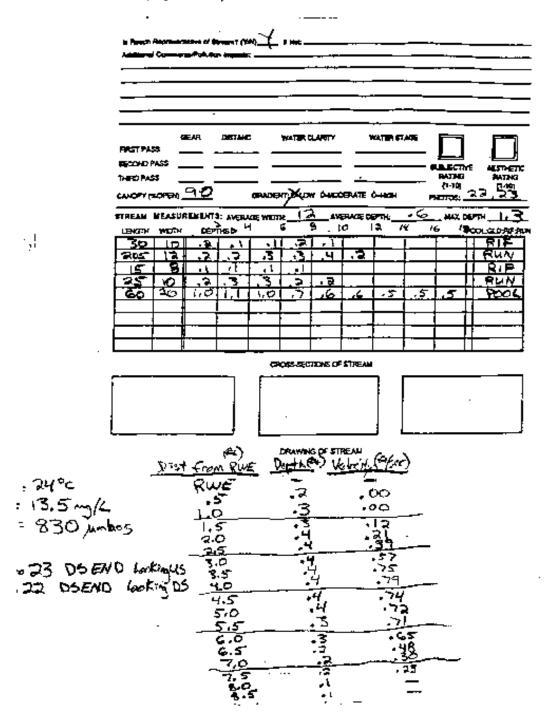
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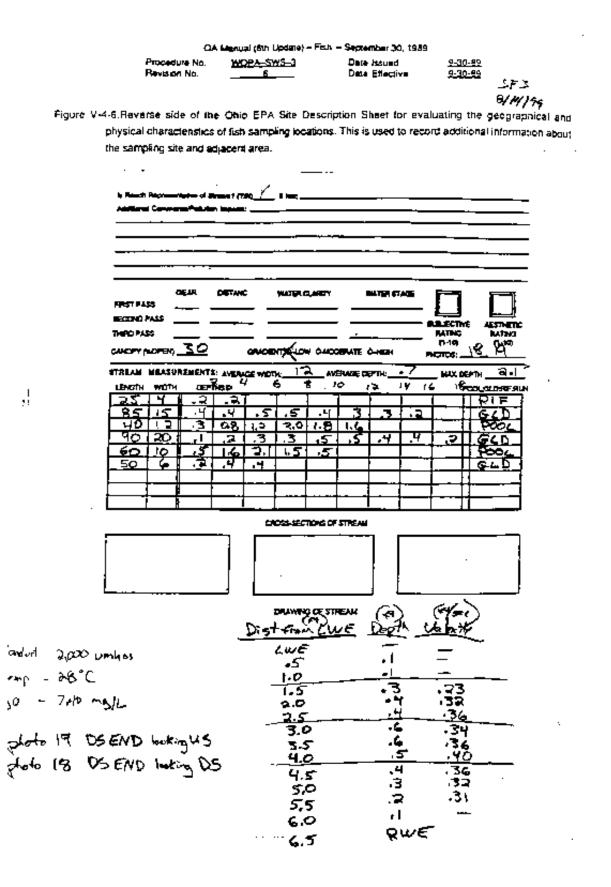


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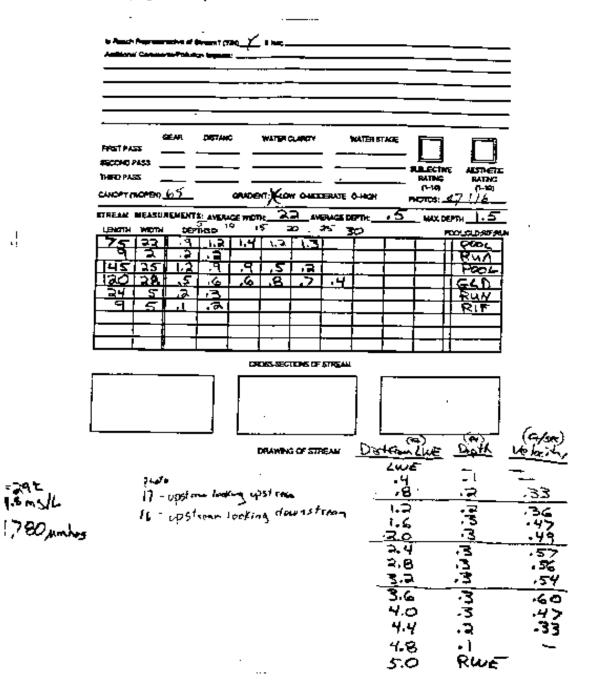
Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.





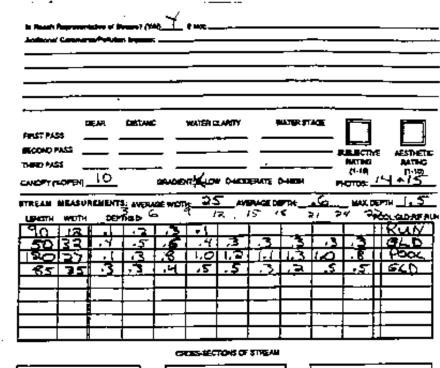
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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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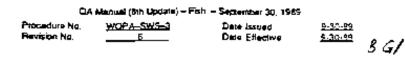
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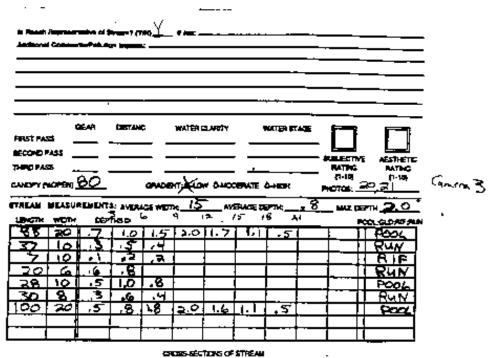
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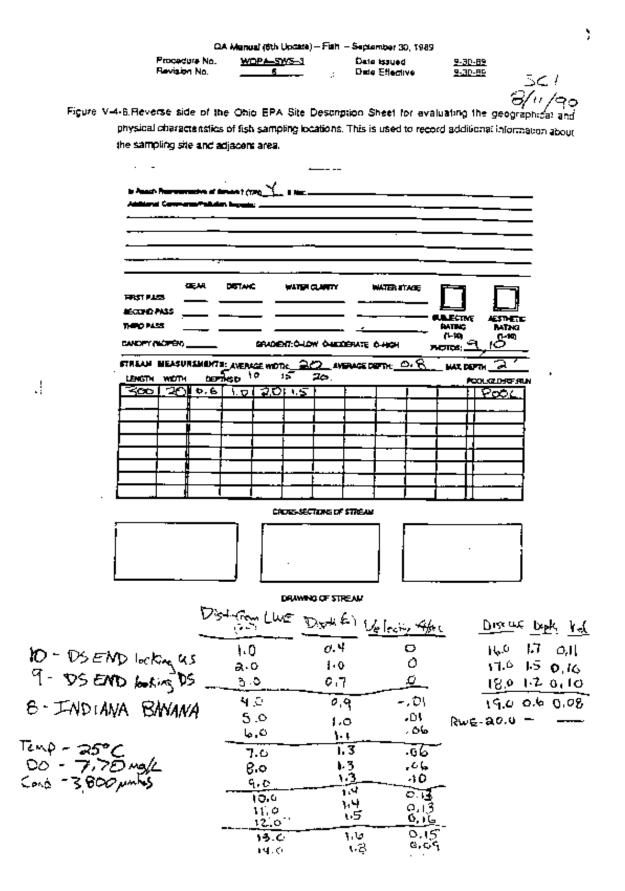
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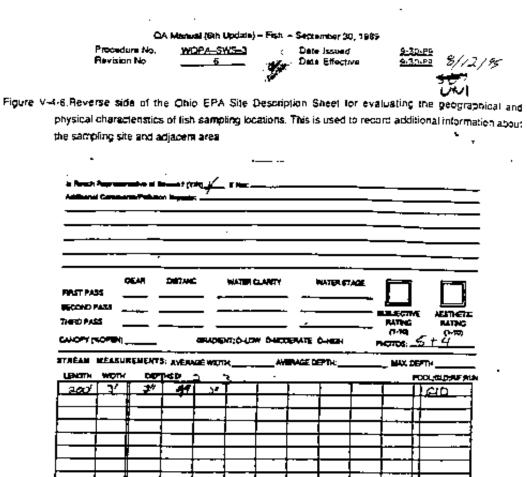


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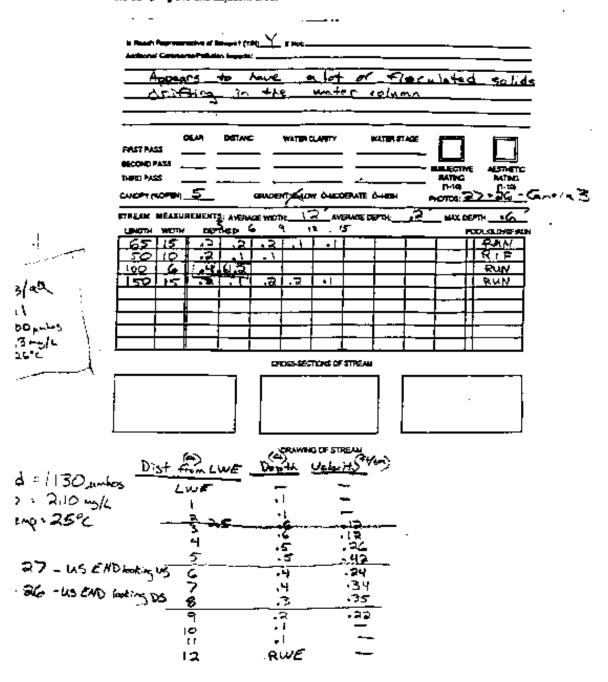
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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical charactentitics of fish sampling locations. This is used to record add/ional information about the sampling site and adjacent area.

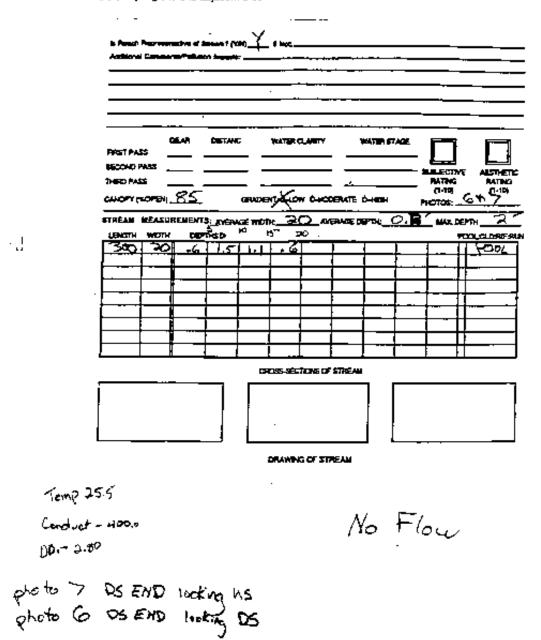


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Figure V-4-6.Reverse side of the Obio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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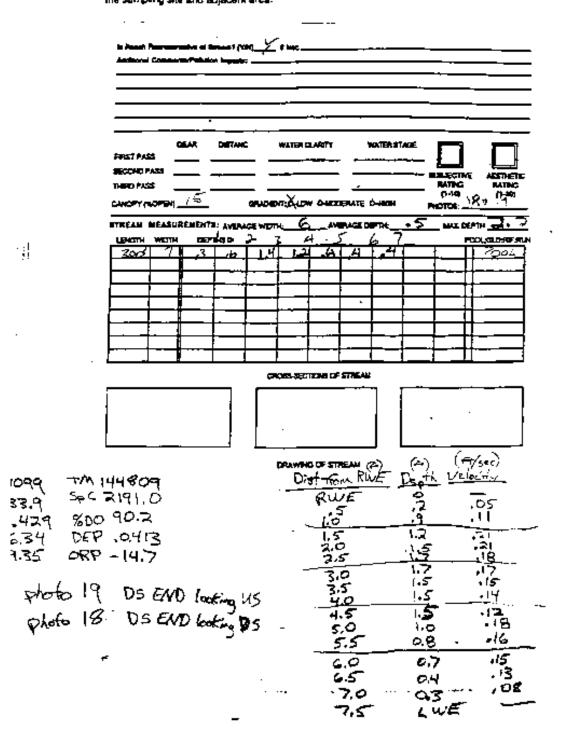
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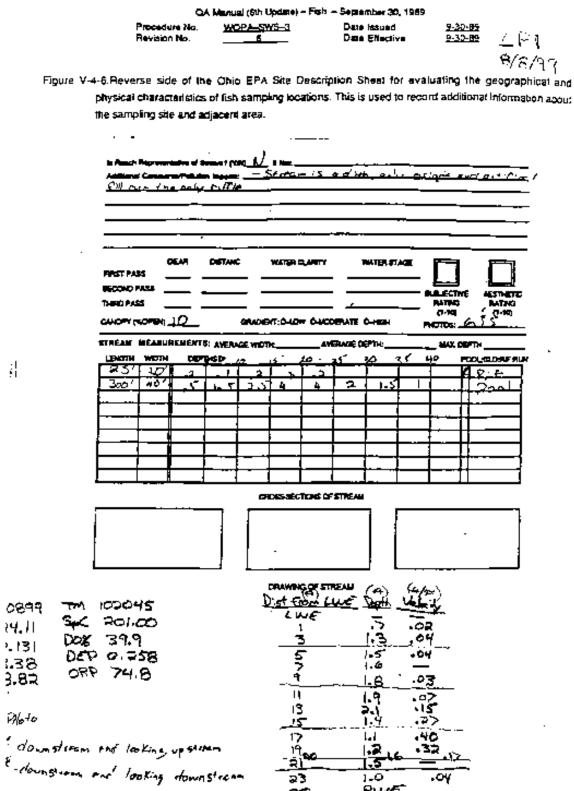
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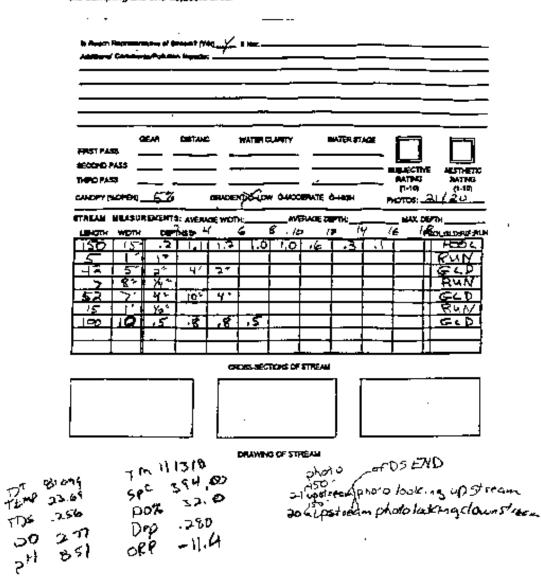
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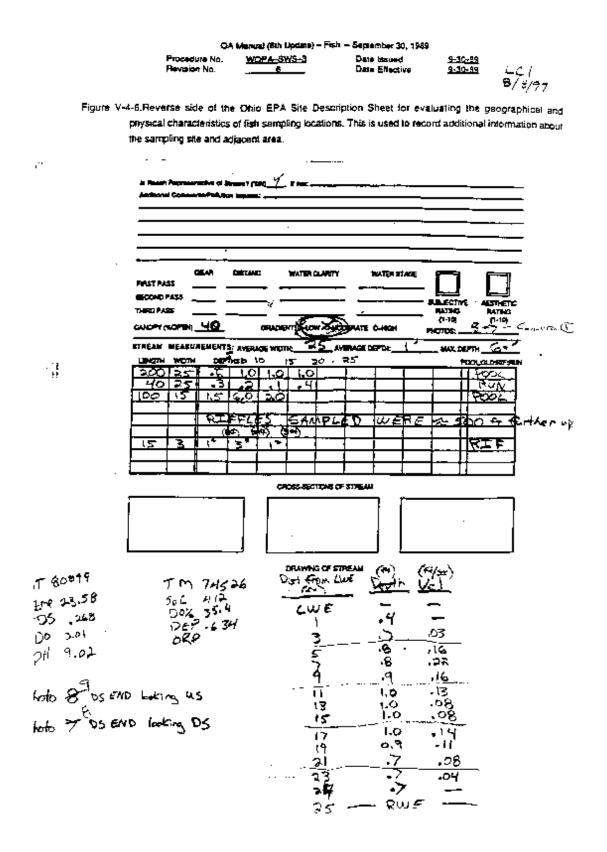
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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record adoptional information about the sampling site and adjacent area.



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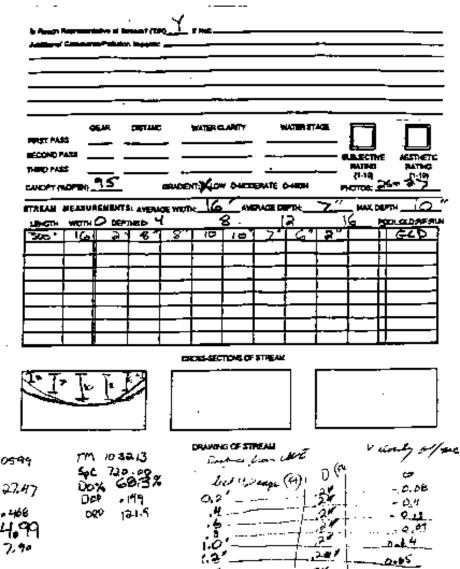


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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record additional information about the sampling site and adjacent area.



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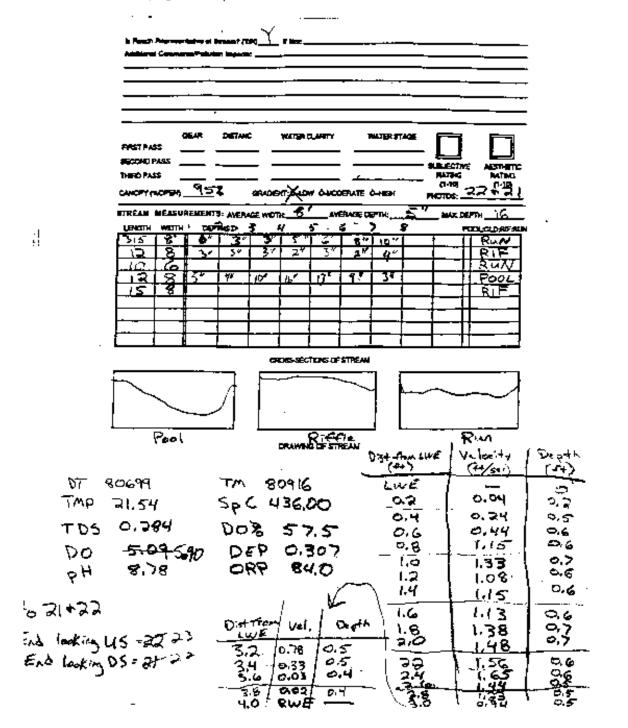
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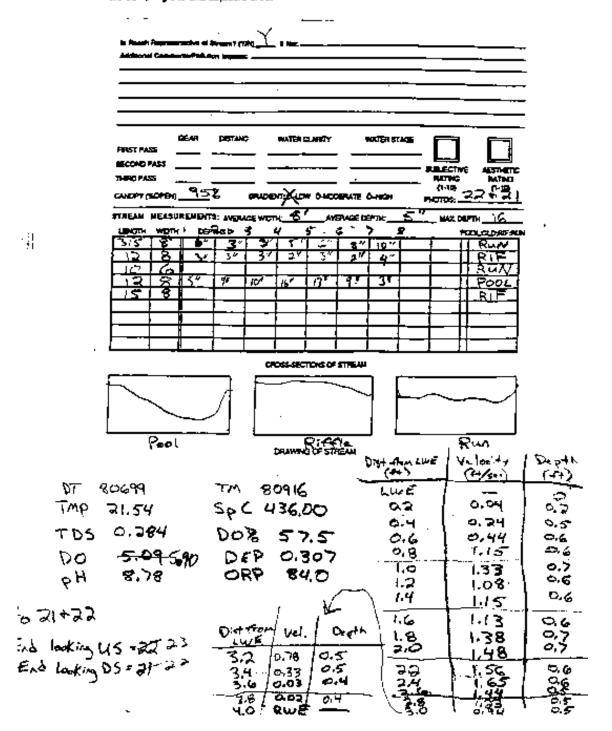
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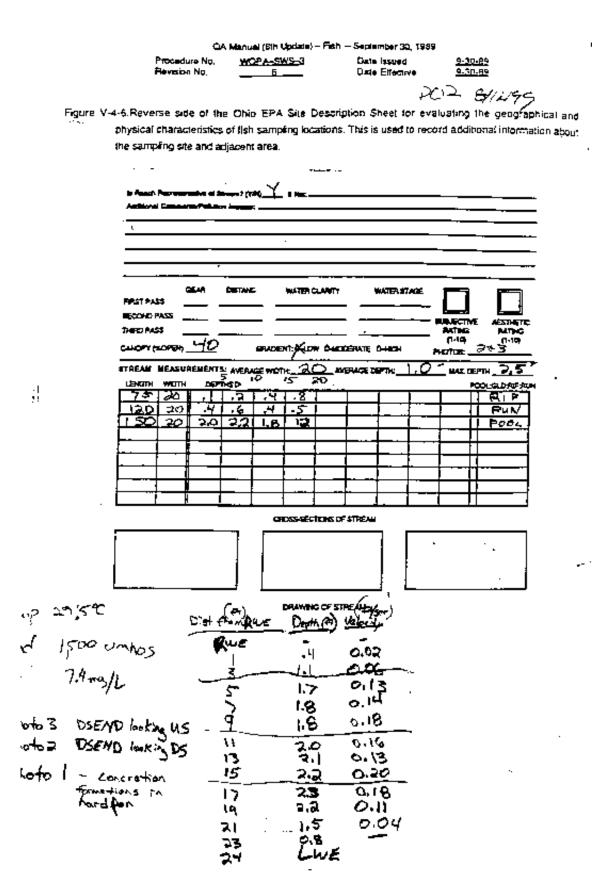
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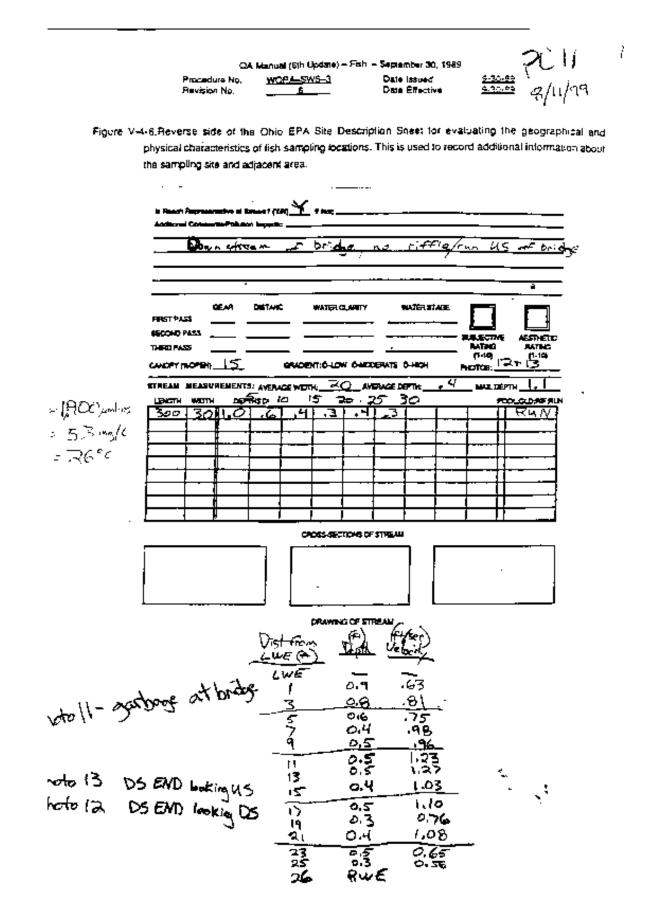
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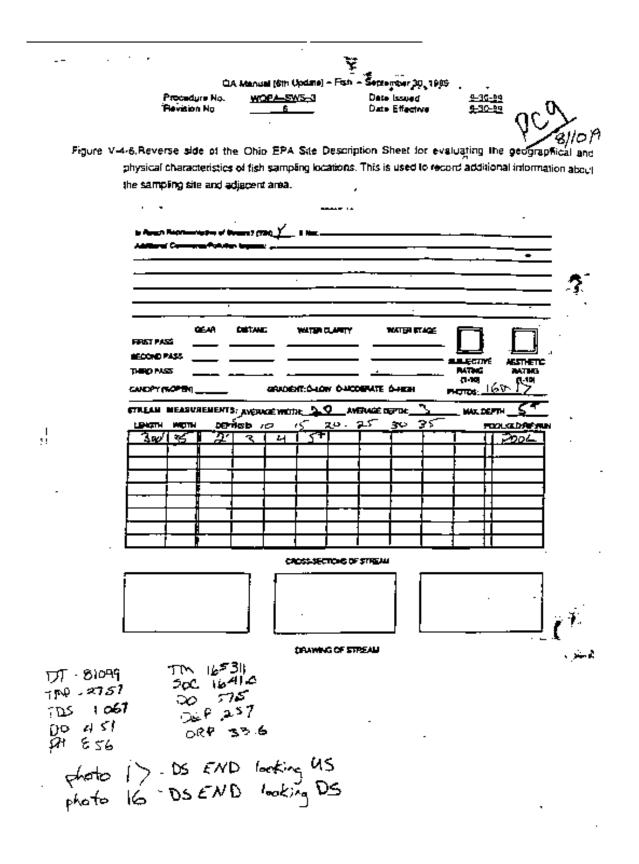
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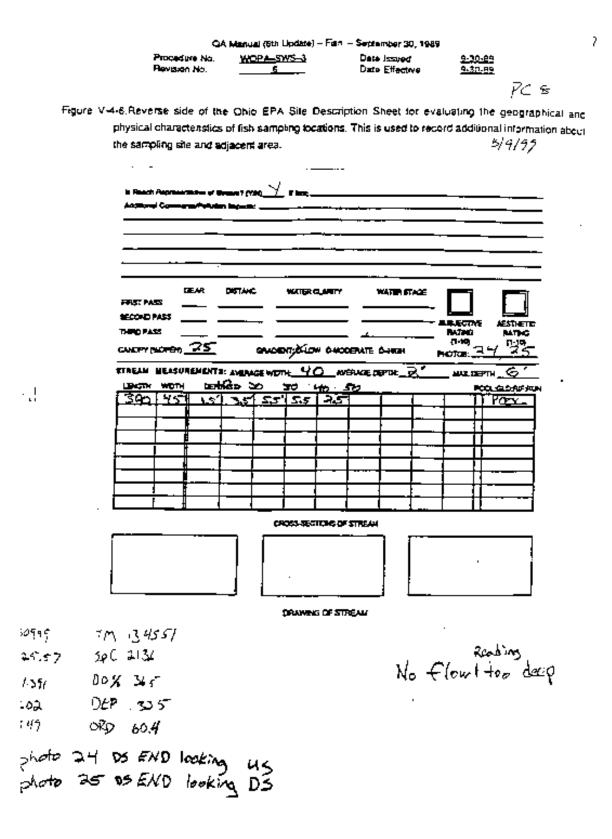
Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record additional information about the sampling site and adjacent area.

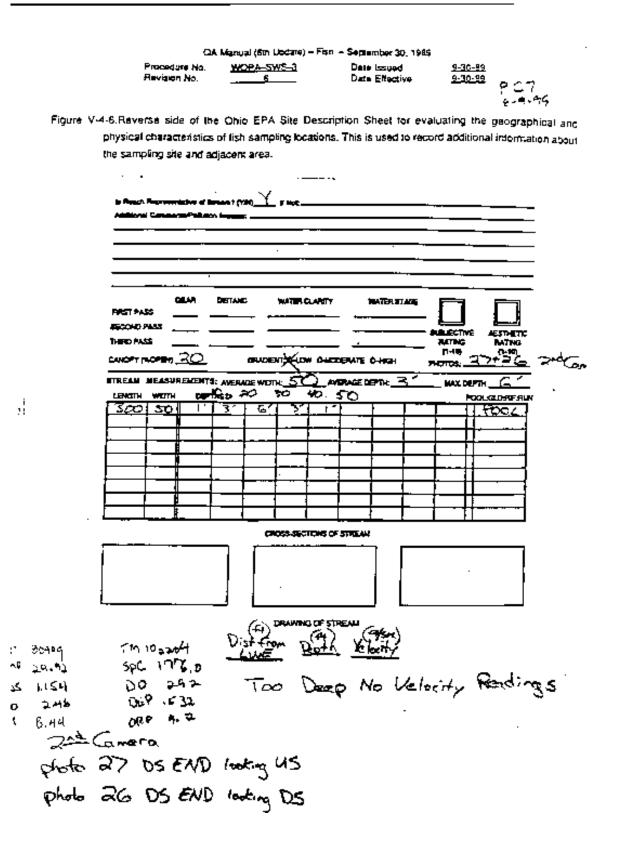












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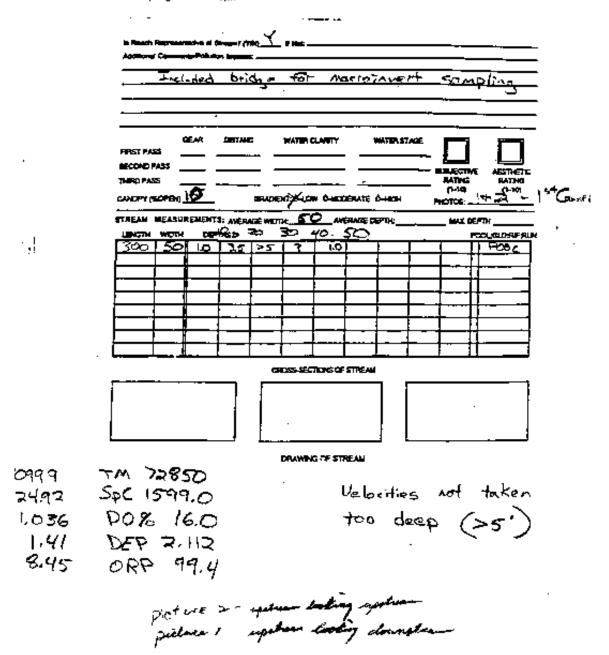
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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record additional intermation about the samping site and adjacent area.



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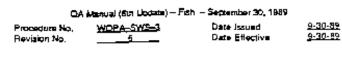
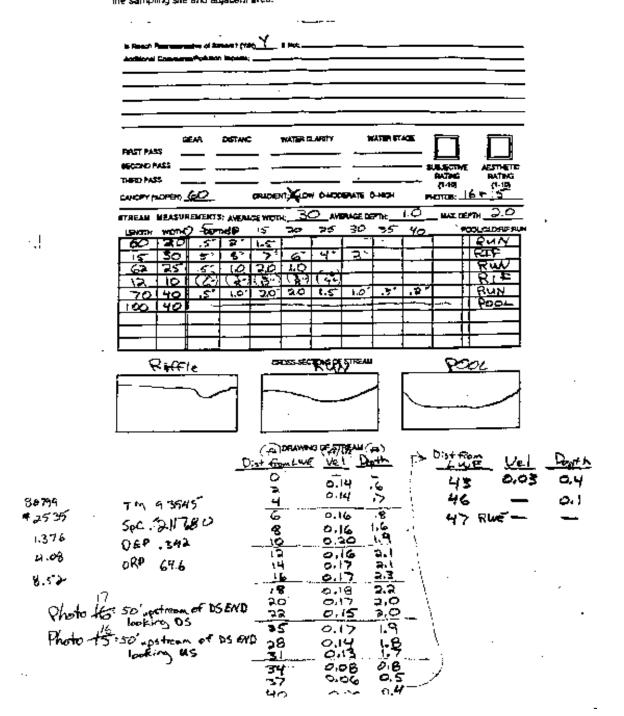


Figure V-4-6.Reverse side of the Ohio EPA Site Description Sneet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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Figure V-4-6. Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical charactensitics of fish sampling locations. This is used to record additional intermation about the sampling sile and adjacent area.

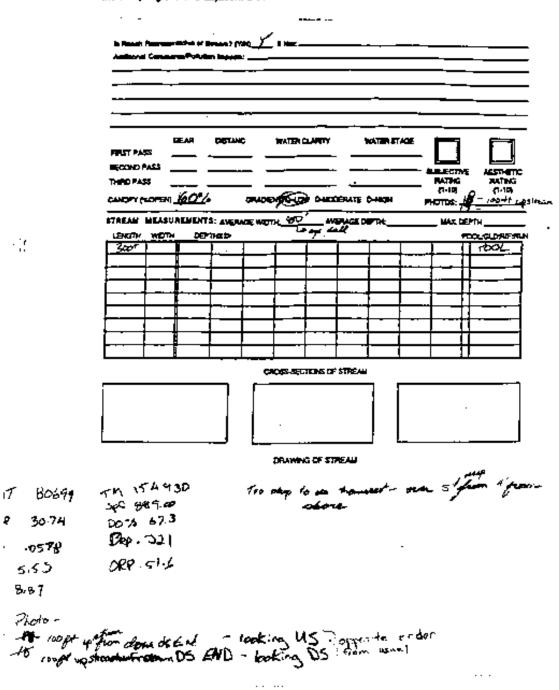
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Figure V-4-6.Reverse side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record additional information about the sampling site and adjacent area.

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other Hemiptern - 11(2)	But the another will	
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FUNCTIONAL FEEDING GROUPS		Paphria - 110 Megaloptern.
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bservations	Total Org. in Sample	60
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- Ancylidae B	<u> </u>	Coleophere - JATI INT   Elmident - (13)-
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	Corron Monidae () F	CHANN- LATI LATI LATI THEYES
		Hullellit
Ephemiempiera - NUL		States (5) -
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RELATIVE ABUNDANCE OF AC	MATIC BIOTA	5
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0 = Absent/Not Observed	1 = Bare 2 = Common	3 = Abundant 6 = Dominsor
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Gastropoda - MIII - Linpo	Anisopters WI - Acchaid	
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	Piecoptera	HUNUII
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Ephemeropiero-NAI Coenidas (G	)* Tochoniera	other (31)+
Coenicae . G	) Trichoptera	other 31 +
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Gastropoda		
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Gastropoda	Amagalana - 1 - Acculation	Diryopidas - (3)=-
Gide Impada	Andopiena — ( - <u>Fic. Acido</u> el Zygodiana Piecopawy	Dipung - Life Life II Dry opidas - 3 =- Dipung - 111
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QA Manual (6th Update) - Fish - September 30, \$989. Procedure No. WOPA-SWS-3 Date 165040 <u>9-30-99</u> Date Effective 5-30-89 Revision No. 5 \_

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Figure V-4-5, Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI)

Chie EPA Sile Description Sheet - Fish CHEI SCORE: 37 Sour Pa Pa Pa Pa Pa StateStateStateStateStateState StateState State
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BIDLIGIAN WOTTY         ERCSION/RUNDEF         FLODD FLAN COLUTY         BANK ERCSION           L A (Per Bank)         L B (Main Production Per Bank)         L B (Per Bank)         D DURBAN OR POUSTRUCTO D D-NONE OR LITTE [3]           CO: WDESSON (4)         OD FOREST, SWAMP (3)         DD URBAN OR POUSTRUCTO, D D-NONE OR LITTE [3]           CO: WDESSON (4)         OD FOREST, SWAMP (3)         DD-URBAN OR POUSTRUCTO, D D-NONE OR LITTE [3]           CO: WDESSON (4)         OD FOREST, SWAMP (3)         DD-URBAN OR POUSTRUCTO, D D-NONE OR LITTE [3]           DD-WARROW S 10m (2)         OD-ASSO, ANDUNEW RELD [3]         DD-URBAN OR SUBJECCERATE_2]           DD-WARROW S 10m (2)         OD-ASSO, ANDUNEW RELD [3]         DD-URBAN OR SUBJECCERATE_2]           CO-WARROW S 10m (2)         OD-ASSO, ANDUNEW RELD [3]         DD-URBAN OR SUBJECCERATE_2]           DD-WARROW S 10m (2)         OD-ASSO (3)         DD-MEANY OR SEVERE[1]           COMMENTS:         DD-ASSO (3)         DD-MEANY OR SEVERE[1]           DD-WARROW S 100 REFLEMENT QUALITY         POOL         POOL           UAY E CTTT:         (Caset A)         MODANDY OR SEVERE[1]           D-ATM(4)         D-POOL WDTH - AREFLE WDTH [2]         D'-TDRADMANT VELOCITY           D-ATM(4)         D-POOL WDTH - AREFLE WDTH [1]         D'-ROTMANTY VELOCITY           D-ATM(4)         D-POOL WDTH - AREFLE WDTH [1]
BIDE GLAN WOTTY         ERCSCONFLUNDER + FLOOD FLAN COALTY         BANK ERGSCH           L A (Per Bank)         L B (User Production FPr Bank)         CD-URBAN OR POUSTRUC(0)         D-NONE OR LOTLE [3]           CCT-WEDESSON (4)         CD-FREES, BWAMP (2)         CD-URBAN OR POUSTRUC(3)         D-NONE OR LOTLE [3]           CCT-WEDESSON (4)         CD-FREES, BWAMP (2)         CD-URBAN OR POUSTRUC(3)         D-NONE OR LOTLE [3]           CCT-WEDESSON (4)         CD-FREES, BWAMP (2)         CD-URBAN OR POUSTRUC(3)         D-NONE OR LOTLE [3]           CCT-WEDESSON (4)         CD-PRESSON (4)         CD-PRESSON (4)         CD-WEAV OR SEVERE(1)           DC-WARROW 5-10m (2)         CD-FREED PASTURE [1]         CD-WEAVY OR SEVERE(1)         CD-WEAVY OR SEVERE(1)           DC-WARROW 1-Sm (1)         CD-FREED PASTURE [1]         CD-WARNOW CONSTRUCTION (0)         CD-WEAVY OR SEVERE(1)           DC-WARROW 1-Sm (1)         CD-FREED PASTURE [1]         CD-WARNOW CONSTRUCTION (0)         CD-WEAVY OR SEVERE(1)           DC-WARNENCE         MARCOW 1-Sm (1)         CD-FREED PASTURE [1]         CD-WEAVY OR SEVERE(1)         CD-WEAVY OR SEVERE(1)           DC-WARNENCE         MARCOW 1-Sm (1)         CD-FREED PASTURE [1]         CD-WEAVY OR SEVERE(1)         CD-WEAVY OR SEVERE(1)           DATE OF THE (5)         MARCOW 1-Sm (1)         MARCOW 1-Sm (1)         CO-MEAVY OR SEVERE(1) <t< td=""></t<>
BIDLEGIAN WOTTY         ERCSCONFLUNDER + FLODD FLAN COALTY         BANK ERCSCON           L A (Per Bank)         L B (Main Predominant Per Bank)         L R (Per Bank)         D C PAREA           CCT WD ESSON (4)         CD C PAREA         CD C PAREA         CD Parea           CCT WD ESSON (4)         CD C PAREA         CD C PAREA         CD Parea           CCT WD ESSON (4)         CD C PAREA         CD C PAREA         CD Parea           CCT WD ESSON (4)         CD C PAREA         CD PAREA         CD PAREA           CCT WD ESSON (4)         CD C PAREA         CD PAREA         CD PAREA           CCT WD ESSON (4)         CD PAREA         PAREA         CD PAREA           CCT WD ESSON (5)         CD PAREA         PAREA         CD PAREA           CCT WD ESSON (5)         CD PAREA         PAREA         CD PAREA           DCT WD ESSON (5)         CD PAREA         CD PAREA         CD PAREA           DCT WD ESSON (5)         CD PAREA         CD PAREA         CD PAREA           DCT WD ESSON (5)         CD PAREA         CD PAREA         CD PAREA           DCT WD ESSON (5)         CD PAREA         CD PAREA         CD PAREA           DCT WD ESSON (5)         CD PAREA         CD PAREA         CD PAREA           DO PAREA
BIDLEGIAN WOTTY         ERCSION/RUNDEF: FLOOD FLAN COALTY         BANK ERCSION           L A (Per Bank)         L B (Main Production Per Bank)         L B (Per Bank)         D DURBAN OR POUSTRUC(0)         D ONNE OR LITTE [3]           C 3* WDESSON [4)         OD FOREST, BWAMP (1)         DD-URBAN OR POUSTRUC(0)         D DURBAN OR POUSTRUC(0)         D ONNE OR LITTE [3]           C 3* WDESSON [4)         OD FOREST, BWAMP (1)         DD-URBAN OR POUSTRUC(0)         D ONNE OR LITTE [3]           C 3* WDESSON [4]         OD FOREST, BWAMP (1)         D DURBAN OR POUSTRUC(0)         D ONNE OR LITTE [3]           D 0* WARROW 5* 10m [2]         OD ASSO, RAND, NEW REID [3]         D O-CONSERV, TULACE [1]         D O-MEAVY OR SEVERE[1]           D 0* WARROW 5* 10m [2]         OD ASSO, RAND, NEW REID [3]         D O-CONSERV, TULACE [1]         D O-MEAVY OR SEVERE[1]           D 0* WARROW 1*5m [1]         D O-FENCED PASTURE [1]         D O-MMINS/CONSTRUCTION (0)         POOL:           D 00 UGUDE AND REFELEMENT QUALITY         POOL         POOL:         POOL:           UAY C 1*TH: [Crack 1]         M 0*ANY OR HOLDERY         POOL:         POOL:           UAY C 1*TH: [Crack 1]         M 0*ANY OR HOLDERY         POOL:         POOL:           UAY C 1*TH: [Crack 1]         M 0*ANY OR HOLDERY         POOL:         POOL:           UAY C 1*TH: [Crack 1]         M
BIDLATION     ERCSION/RUNDER + FLOOD FLAN COLUMY     BANK ERCSION       L A (Per Bank)     L B (Most Production For Bank)     L B (Per Bank)     DD-URBAN OR POUSTRUCTOR DO DONNE OR LITTE [3]       C D'-WODERATE (PSO(A))     OD FOREST, BYANAP (1)     DD-URBAN OR POUSTRUCTOR DO DONNE OR LITTE [3]     DD-URBAN OR POUSTRUCTOR DO DONNE OR LITTE [3]       C D'-WODERATE (PSO(A))     OD FOREST, BYANAP (1)     DD-URBAN OR POUSTRUCTOR DO DONNE OR LITTE [3]     DD-URBAN OR POUSTRUCTOR DO DONNE OR LITTE [3]       D D'-WARROW S 10m [2]     OD-ASSO, BARK NEW RELD [3]     OD-CONSERV, TULASE [1]     D D-WEAVY OR SEVERE[1]       D D'-WARROW S 10m [2]     OD-ASSO, BARK NEW RELD [3]     OD-CONSERV, TULASE [1]     D D-WEAVY OR SEVERE[1]       D D'-WARROW 1-Sm [1]     OD-FENCED PASTURE [1]     DD-MMINSCONSTRUCTION [0]     DM-MAXY OR SEVERE[1]       D D'-WORROW S 10m [2]     OD-FENCED PASTURE [1]     DD-MMINSCONSTRUCTION [0]     PODL:       D D'-WORROW S 10m [2]     OD-FENCED PASTURE [1]     DD-MMINSCONSTRUCTION [0]     PODL:       D D'-WORROW S 10m [2]     OD-FENCED PASTURE [1]     DD-MMINSCONSTRUCTION [0]     PODL:       D D'-WORROW S 10m [2]     ICMON BEFLE WIDTH [2]     D'-MOREMATTY VELOCITY     PODL:       D A-0, TM [3]     D'-POQL WIDTH - RIFFLE WIDTH [2]     D'-TORREMATTENTY VELOCITY     PODL:       D A-0, TM [2]     D'-POQL WIDTH - RIFFLE WIDTH [2]     D'-TORREMATTENTY VELOCITY     D'-NOPODER31] <tr< td=""></tr<>
BIDLEGIAN WOTTY         ERCSDAMBLINGET + FLOOD FLAN COALTY         BANK ERGSDA           L A (Per Bank)         L B (Main Production Per Bank)         L B (Per Bank)         DE DESSON           C C: WEDESSON (4)         CO FOREST, BWAMP (2)         DE URBAN OR MOUSTRING(5)         D ONONE OR LITTE (3)           C C: WEDESSON (4)         CO FOREST, BWAMP (2)         DE URBAN OR MOUSTRING(5)         D ONONE OR LITTE (3)           C C: WEDESSON (4)         CO FOREST, BWAMP (2)         CO UNARROW S 10m (2)         O ONONE OR LITTE (3)         D ONEANY GR SEVERE(3)           C C: WEDESSON (4)         CO FOREST, BWAMP (2)         OO OSARUB OR OLD FIELD(2)         CO SERVITELING(5)         D ONONE OR LITTE (3)           C C: WERE (3)         DEFENCED PASTURE (1)         OO CONSERV, TULACE (1)         D ONEANY GR SEVERE(1)           D O: NONE(0)         CO FOREST E LUBRENT VELOCITY         POOL:         POOL:           D O: MORE AND REFELEMON QUALTY         POOL (CONSERVITY E LUBRENT VELOCITY         POOL:         POOL:           UAX C C'TTE: (Charlet 1)         M ORANG REFELE WIDTH (2)         O' CONSERVIT VELOCITY         POOL:         POOL:           D A: MORE AND REFELE WIDTH (2)         O' CONSERVIT VELOCITY         COMER AND REFELE WIDTH (2)         O' CONSERVIT VELOCITY         POOL:           D A: MORE AND REFELE WIDTH (2)         O' CONSERVIT VELOCITY         CONSERVIT VE
BIDLEGIAN WOTTY         ERCSCONFLUNDER + FLOOD FLAN COALTY         BANK ERGSCH           L A (Per Bank)         L B (Usei Production FPr Bank)         L R (Per Bank)         D Contract (Per Bank) </td
BIDE GLAW WOTTY         ERCSION/RUNOFF + FLODD FLAN COALTY         BANK ERGSEN           L A (Per Bank)         L B (Uper Independent Fire Bank)         L B (Per Bank)         L D (Per Bank)         D D URBAN OR WOUSTRUCTO D D NONE OR LITTE [3]           C D'-WODERATE UP 50 (3)         COD FOREST, SWAMP (1)         D D URBAN OR WOUSTRUCTO D D NONE OR LITTE [3]         D D URBAN OR WOUSTRUCTO CORRECT ATE [2]           D D'-WARROW 5-10m [2]         COD FOREST, SWAMP (1)         D D-URBAN OR NOL ATE [1]         D D-URBAN OR SUDECORRATE [2]           D D'-WARROW 5-10m [2]         COD FOREST, SWAMP (1)         CO-CONSERV, TULASE [1]         D D-MENOV GR SEVERE[1]           D D'-WARROW 5-10m [2]         CO-FENCED PASTURE [1]         CO-CONSERV, TULASE [1]         D D-MENOV GR SEVERE[1]           D D'-WARROW 1-Sm [1]         CO-FENCED PASTURE [1]         CO-CONSERV, TULASE [1]         D D-MENOV GR SEVERE[1]           D D'-WARROW 1-Sm [1]         CO-FENCED PASTURE [1]         CO-CONSERV, TULASE [1]         POOL:           D D'-WARROW 1-Sm [1]         CO-FENCED PASTURE [1]         CO-MENOV GR SEVERE[1]         POOL:           D D'-WARROW 1-Sm [1]         CO-FENCED PASTURE [1]         CO-MENOV GR SEVERE[1]         POOL:           D CO-WARROW 1-Sm [1]         CO-FENCED PASTURE [1]         CO-MENOV GR SEVERE[1]         POOL:         D D OD OD DIE           D ST M [2]         CO-FENCED PASTURE [1]         <
BIDLAGIAN WOTTY         ERCSDOMBLINGET + FLODD FLAN COALTY         BANK ERGSDN           L A (Per Bank)         L B (Main Production FW Bank)         L B (Per Bank)         L D (Per Bank)         D D URBAN OR MOUSTRIACTOR Bank)         D D URBAN OR MOUSTRIACTOR DO UNDER ALLTE [3]           C J - MODERATE UP 501 (3)         COD FOREST, EMANAP (3)         D D URBAN OR MOUSTRIACTOR DO UNDER ALLTE [3]         D D URBAN OR MOUSTRIACTOR DO UNDER ALLTE [3]         D D URBAN OR MOUSTRIACTOR DO UNDER ALLE [3]           D J - MARROW S 10m [2]         O D ASSO, MARX NEW RELD [3]         D D URBAN OR NOLDERATE [2]         D D URBAN OR SUBJECTION (0)           D J - MARROW S 10m [2]         O D ASSO, MARX NEW RELD [3]         D D UNDER ALL ALLE [3]         D D MEANY OR SEVERE[1]           D D - MARROW S 10m [2]         O D ASSO (3)         MARK NEW RELD [3]         D D URBAN OR SUBJECTER ALLE [3]           D D - MARROW S 10m [2]         D D - FROED PASTURE [1]         D D - MARROW S 100 [2]         PODL:           D D - MARROW S 10m [2]         D D - FROED PASTURE [1]         D D - MARROW S 100 [2]         PODL:           D D - MARROW S 100 [2]         I D - FROED PASTURE [1]         D D - MARROW S 100 [2]         PODL:           D - MARROW S 100 [2]         I D - FROED PASTURE [1]         D - MARROW S 100 [2]         D - MEANY S 20 [2]           D - MORT S - FROED PASTURE [1]         I D - FROED PASTURE [1]         D - MARROW S 20 [2]
BIDLEGIAN WOTTY         ERCSDOMBLINGET + FLOOD FLAN COALTY         BANK ERGSDN           L A (Per Bank)         L A (User Production FPr Bank)         L A (Per Bank)         L A (Per Bank)         D DUBBAN OR MOUSTRING(D)         D DUBBAN OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRIN
BIDLEGIAN WOTTY         ERCSDAMPLINDEF + FLOOD FLANCOLUTY         BANK ERGSDA           L A (Per Bank)         L A (User Production FPr Bank)         DEUBELSON         DEVENDED FOR PASTURE (P)         DEUBELSON           C J - MODERAND (P)         OD FOREST, BWAMP (P)         DEUBELSON (A)         DEVENDED FOR PASTURE (P)         DEUBELSON (A)         DEVENDED FOR PASTURE (P)         DEUBELSON (A)         DEVENDED FOR PASTURE (P)         DEUBELSON (A)         DEVENDED FOR PASTURE (P)         DEUBELSON (A)         DEVENDED FOR PASTURE (P)         DEUBELSON (A)         DEUSELSON (A)
BIDLEGIAN WOTTY         ERCSDOMBLINGET + FLOOD FLAN COALTY         BANK ERGSDN           L A (Per Bank)         L A (User Production FPr Bank)         L A (Per Bank)         L A (Per Bank)         D DUBBAN OR MOUSTRING(D)         D DUBBAN OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRING OR MOUSTRIN

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(	DA Manvel (6th Update) -	Fish – September 30, 1989	
Procedure No	<u>wopa-sws-</u> 2	Date Issued	9 <u>-20-89</u>
Revision No.	e	Date Effective	9-30-89

Figure V-4-5. Front side of the Obio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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Okio EPA Sits Descripti Sena Harrican Crack	lon Sheet - Fich Bu	
		- ZIR/WB
1) SUBSTRATE (Crede OVE Films Substr	the TYPE COZES: Check of Stores or	
TYPE POOL RAPPLE	POOL APPLE 10	STATE BUAUTY SUBSTRATE SCORE: 14
	AVE. IT X Subarray One	in (Check all Sin Cover (Check One)
	WOR X X DUMESTONE!	CORPORATION CONTRACT HEAVY (2) CASE MCDERATE (-1)
	EDROCK[5] TELS [1]	CHARDRAN (CLE-SET NORMAL (CLE) BUT FREE (1)
	TRITUSDD-SAVESTONE	[0] Extend DY Embedane 24 (Creek Cree)
		O-EXTENSIVE(-2] D-MODERATE(-1]
TOTAL MARIER OF SUBSTRATE TYPES:	Car 4 [2] San 4 [0] O-COAL FRES	
NOTE: (longre statige that origination from pr	sine-sources; seere is beind on easend a	
COMMENTS	·	COVER SCORE: 5
		AMOUNTICANCE CALLY COM AN
2) DISTREAM COYER <u>TYPE</u> (Creck AF	Th-1 4	check 3 and AVERAGE
D-UNDERCUT EANS[1]	0-062P 700L3 [2] D-0380W	
D-OVERHANDING VEGETATION[1]		C MACROPHYTES (1) O . MODERATE 25-75% [7]
"SASHALLOWS (IN SLOW WATER) ["		R WOODY DEERS (1) IN, SPARSE 5-25% [D]
<b></b>	······································	D . NEARLY ABSENT + STATI
COMMENTS:		
		CHANNEL:
TI CHANNEL MORPHOLDUT: (Chick DA	CHANNELIZATION STABLITY	MCORCATIONS DIVER
SINUOSITY DEVELOPMENT D - HIGH [4] O - EXCELLENT [7]		
0 - HIGH [4] O - EXCELLENT [7] D - MODERATE [3] D - GOOD [5]	CI- RECOVERED (4)	
	TH RECOVERING DI CO-LOW [1]	O - CUNOPY REMOVAL O - LEVEED
10 NONE[1] - POCR[1]	D RECENT OR NO	CI-DREDGING D. BANK SHAPING
	RECOVERY [1]	O- ONE SIDE CHANNEL MODIFICATIONS
CONNENTS:		
4) RIPARIAN SOME AND BARK ENOSION "Rever Right Looking Downsleam"		2 and AVENAGE produced a RIPARIAN:
	<u>AVRIANT - FLOOD FLAIN CUALITY</u> est Predomissoni Per Genit) - L. R. (Per	
• • • • • • • • • • • • • • • • • • • •		AN OR INDUSTRIALIES DO ANONE OR LITTLE (A)
	N PASTURE ROWCROPH DO SHA	
		GERV. TRLAGE [1] D. D. KEAVY DR SEVERE[1]
WERY NARROW I-Sm [1] CO-FEN		INGCONSTRUCTION [0]
DO'NDAED		
COUNTS:		
PROLIGIOS AND RUFLERWA DUALITY		POOL: 55
	Paulo Della Della	
		MAUNAHIN - CURNEND - SLOCICY
Dr + 1m [6]	senk 1) (Ch	ents All That Apply)
D- +1m[6] D- 0.7-1m[4] \$2000, WDT	ICA	ANTINI ANNY
D-s1m[6] [D- D-0.7-1m[4] [D-9COLWDT 70-04-0.7m[2] D-9COLWDT	NERE 1] (Ch M & RIFFLE WICTN [7] O'-TORR N & RIFFLE WICTN [1] O'-FAST	RENTIALI-11 CI'-EDDIESTI RENTIALI-11 CI'-EDDIESTI (1) CI'-INTERSTITIALI-11 CONDEDDILO)
D-+1m(4) (C) D-07-1m(4) (C) 70-40.7m(2) (C-FOOL WOT D-+00L WOT D-+00L WOT	1244 1] [Ch M & RIFFLE WICTH [7] D*-TORR M & RIFFLE WICTH [1] D*-FAST M & RIFFLE W. [6] D;-MCGE	RANTINI ARRY) KENTIALI-11 O'-EDDIESI1 (1) G'-INTERSTITIALI-11 O'NO POOLO) RATE (1) O'AKTERMITTENTJ-2]
D • 1m(6) (D) D • 07-1m(4) (D) D • 07-1m(4) (D • 000, WOT D • 040(1) (D • 000, WOT D • 040(1) (D • 000, WOT D • 022m(Pool = 0)	NERE 1] (Ch M & RIFFLE WICTN [7] O'-TORR N & RIFFLE WICTN [1] O'-FAST	RANTINI ARRY) KENTIALI-11 O'-EDDIESI1 (1) G'-INTERSTITIALI-11 O'NO POOLO) RATE (1) O'AKTERMITTENTJ-2]
D-+1m(4) (C) D-07-1m(4) (C) 70-40.7m(2) (C-FOOL WOT D-+00L WOT D-+00L WOT	1244 1] [Ch M & RIFFLE WICTH [7] D*-TORR M & RIFFLE WICTH [1] D*-FAST M & RIFFLE W. [6] D;-MCGE	RANTINI ARRY) KENTIALI-11 O'-EDDIESI1 (1) G'-INTERSTITIALI-11 O'NO POOLO) RATE (1) O'AKTERMITTENTJ-2]
D-s1m[4] (D) D-0.7-1m[4] (D) D-0.7-1m[4] (D-0.00, WDT (D-0.0, WDT D-0.0, WDT	REAL 1] [CA M & ANFRLE WICTM [7] D'-TORA N & RIFRLE WICTM [1] D'-TASTI M & RIFRLE W, [0] D'-MODE X & RIFRLE W, [0] D'-MODE X & SLOW	ANTINI APPY) KENTAL(-1) C'-EDDIES(1) (1) C'-INTEASTITIAL(-1) C NO POOL(0) (2) C'-INTEASTITIAL(-1) C NO POOL(0) (2) C'-INTEASTITIAL(-1) (2) C'-INTEASTI
D s1m[6] (D) D 07-1m[4] (D) D 07-1m[4] (D)POOL WDT D 40.7m[2] (D)POOL WDT D 40.7m[2] (D)POOL WDT D 40.4m[1] (D)POOL WDT C 000022m[Pool=0] C 0000EA(75) POOL TO C 0000EA(75)	1244 1] [Ch M & RIFFLE WICTH [7] D*-TORR M & RIFFLE WICTH [1] D*-FAST M & RIFFLE W. [6] D;-MCGE	ANTINI APPY) ISNTIAL[-1] CI-EDDIES[1] ISATE[1] CI-INTERSTITAL[-1] CINO POOL[0] ISATE[1] CI-INTERSTITAL[-1] ISATE[1] CI-INTERSTITAL[-1] RIFFLE: SIFFLE:
D-s1m[4] (D) D-0.7-1m[4] (D) D-0.7-1m[4] (D-0.00, WDT (D-0.0, WDT D-0.0, WDT	REAL 1] ICA M & ANFALE WICTN [2] D'-TORA N & RIFALE WICTN [1] D'-TASTI M & RIFALE W. [0] D'-MODE M & RIFALE W. [0] D'-MODE SLOW	A#That Appys           ISNTAL[-1]         O'-EDDIES[1]           [1]         O'-EDDIES[1]           [2]         O'-EDDIES[1]           [3]         O'-EDDIES[1]           [4]         O'-EDDIES[1]           [4]         O'-EDDIES[1]           [4]         O'-ANTERMITTENT[-2]
D + 1m(6) (C) D + 0.7 + 1m(4) (C) D + 0.7 + 1m(4) (C) D + 0.4 m(7) (C) D + 0.4 m	REAL 1] [Ch M & AIFFLE WICTM [7] O'-TOAR N & RIFFLE WICTM [1] O'-FASTJ M & RIFFLE W. [0] O'-KOST S.COM <u>BUCKLE MK:N SLOATHATE</u> O'-STABLE (A.G. COOM, Build	ин Ай Тил Арруу КАЛТИЦ-11 0'-EDDIES11 (1 Ст-INTEASTITUL(-1) С NO POOL(0) (2) С-ИХТЕРАЗТIТИЦ(-1) С NO POOL(0) (3) С-ИХТЕРАЗТIТИЦ(-1) С NO POOL(0) (3) С-ИХТЕРАЗТIТИЦ(-1) С NO POOL(0) (3) С ИХТЕРАЗТИСКА: (1) С С С С С С С С С С С С С С С С С С С
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D-sim(6) (D) D-orm(2) (D) D-ocam(2) (D-PCC, WDT D-ocam(2) (D-PCC, WDT D-ocam(2) (D-PCC, WDT D-ocam(2) (D-PCC, WDT O-ocam(2) (D-PCC, WDT O-ocam(2) (D-PCC, WDT D-ocam(2) (D-Ocam(2) (D-PCC, WDT) D-ocam(2) (D-Ocam(2) (D-PCC, WDT) D-ocam(2) (D-Ocam(2) (D-Ocam(2) (D-PCC, WDT) D-ocam(2) (D-Ocam(2) (D-	Real 1]         ICh           M & RIFFLE WICTN [7]         O'-TORR           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [2]         O'-TORR           D'STABLE [4.0, CODE: STASLE [4.0, PH GR           D-MOC. STASLE [4.0, PH GR	ана Ай Тил Арруу КАЛТИЦ-11 0'-EDDIE 511 (1 Ст-INTEASTITIAL(-1) С NO POOLLO) (2 Ст-INTEASTITIAL(-1) С NO POOLLO) (3 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (4 С NO POOLLO) (5 С NO POOL
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D-sim(6) (D) D-sim(6) (D) D-0.7-1m(6) (D) D-0.02m(7) (D) D-0.02m(7) (D) C-0.4m(7) (D) C-0.	Real 1]         ICh           M & RIFFLE WICTN [7]         O'-TORR           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [2]         O'-TORR           D'STABLE [4.0, CODE: STASLE [4.0, PH GR           D-MOC. STASLE [4.0, PH GR	ANTINE APPY) ISNTIAL[-1] CI-EDDIES[1] [1] CI-INTERSTITIAL[-1] CINO POOLLO] RATE [1] CI-INTERSTITIAL[-1] RATE [1] CI-INTERSTITIAL[-1] PIFFLE: CI-INTERSTITIAL
D-sim(6) (D) D-sim(6) (D) D-07-1m(6) (D) D-02-1(P(0) - 0) C-02-1(P(0) - 0) COMMENTS: 0-55-5-5-5-7-7 (DEPTH D-65-16-5-7-7 (DEPTH D-65-16-5-7-7 (DEPTH D-65-16-5-7 (DEPTH D-65-16-	Real 1]         ICh           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [2]         O'-MODE           D'-MODE         STABLE [4.0GODME           D'-MODE         STABLE [4.0FM GR           M UNSTABLE [GUINNELS and] [0         MODE	ANTINE APPY) ISNTIAL-11 O'-EDDIES11 (I O'-INTERSTITIAL-11 O'NO POOLO) RATE(1) O'ARTERMITTENT[-2] (1) RIFFLE: D. PIFFLEMD-V EMBENDEDNESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDEDNESS INTERSTITIAL-11 O'NO POOLO
D-sim(6) (D) D-sim(6) (D) D-07-1m(6) (D) D-02-1(P(0) - 0) C-02-1(P(0) - 0) C-02	Real 1]         ICh           M & RIFFLE WICTN [2]         O'-TORR           M & RIFFLE WICTN [1]         O'-TAST           M & RIFFLE WICTN [2]         O'-MODE           D'-MODE         STABLE [4.0GODME           D'-MODE         STABLE [4.0FM GR           M UNSTABLE [GUINNELS and] [0         MODE	ANTINE APPY) ISNTIAL-11 O'-EDDIES11 (I O'-INTERSTITIAL-11 O'NO POOLO) RATE(1) O'ARTERMITTENT[-2] (1) RIFFLE: D. PIFFLEMD-V EMBENDEDNESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDEDNESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDEDNESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDEDNESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDESS INTERSTITIAL-11 O'NO POOLO) RIFFLE: D. PIFFLEMD-V EMBENDESS INTERSTITIAL-11 O'NO POOLO

OA Manual (6th Update) - Fish - September 30, 1989

Precedure No Revision No.	<u>WOPA-SW5-1</u>	Date £ssuec Date £flective	<u>9-30-99</u> 9-30-99	
			WF3	BINTAS

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Quainative Habital Evaluation Index (QHEI).

Onio EPA Sii Stat //257_/	le Deadription Sheet - Fi The Statem	зћ вмо <sub>жи</sub>	OHEI SCORE: HO
Longen	WF 3	C.	*
13 SUBSTRATE (Creak	ONLYTWO SUBJOICH TYPE FORES: Cher	ck all types presently;	
7.01	POOL PAPALE POOL RIPPLE		SUBSTRATE SCORE: 20 1
CO-BLDER /SLABS[14]	IECCANVEL(7) 💆 📈 :	Sufarizate Driels (Creek all)	Strictment Cheese Deven
CO-BOLLDER [9]		LIMESTONE 112-RIPHRAP	PLOSILT HEAVY 1210 SILT MODERATE (-1)
D D-COBBLE (II)		TILLS [1] HARDPA	NOID SILT NORMAL AL D. ST.T FREE I
CHAROPAN 14]		SANDSTONE [0]	Effert Of Embeddings (Check One)
0.0+++.0× [2]	രാഷങ്ങപ്പെട്ട് വ	SHALE[-1]	O-EXTENSIVE   ZC-MCDERATE  U
TOTAL NUMBER OF SU	IBSTRATE TYP59 🖉 4 🔁 🛖 - + 向 🖸	COAL PARES [ 2]	-LOWIN D-NOVEIN
	at properties from point-sources; source is base		V int unright
COMMENTS			
ZI INSTREAM COVER	TYPE (Check All That Apply)		COVER SCORE: 6
O-UNDERCUT BANKS	(1) & DEE POOLS (2)	E -00050WS [1]	Q - EXTENSIVE - 75% (11)
CYLINANGING VEC	GETATION [1] G-ROOTWADS [1]	A ADMATIC MACROPH	TTES (1) D . MODERATE 25-75% (7)
D SHALLOWS (IN SLO	W WATERI [1] D. BOLD, DERG [1]	A LOGS OR WOODY D	ERAIS (1) FPARSE S-25% [1
			O - NEARLY ABSENT + SN(1)
COMMENTS.			
	-		
	LOGY: (Gheck PALTON PER Gregory C		
	DEVELOPHENT CHANNEL PATION		KATIONS/OFFICE
			ACCING D-MARKINE.
D - MODERATE (2) C			
· · ·	D - FAIR [3] D - RECOVERING [3]		NDRY REMOVAL O · LEVESD
ACANE [1]	F-POOR [1] J-RECENT OR NO		EDGING O - BAAK SHAPING
	RECOVERY [1]	Q-	ONE SIDE CHANNEL MODIFICATIONS
COMMENTS:			-
	BANK EROSION - (check ONE box per b	and or check 2 and 24 EAA	GE per bank) RIPARIAN: 🔀 Ц
"River Right Looking Down		<b>-</b>	
RIPA PIAN WOTH	EPOSOWRUNDET - ELOOD PLI		BANK EROSION
	( R (Mait Fredoritani) Per Bar		
CC-W10E-\$0m[4]	DD-FOREST, SWAMP (1)	COURSAN DRINDL	
001-40028478 IP:			
DI NARROW 5-10m		•	
	1-\$m(1) CIC+FANCED PASTURE [1]	D D MINING CONSTITU	אכייביא ומן
PO-NOWEICI			
COMPENTS.		•	
POOLIGLIDE AND RIFFL			POD1: 7
MAR DEFTH COLLER			<ul> <li>CUPRENT VELOCITY</li> </ul>
D-s-:m[6]	(Creck 1)	(Check AD Test A	
<b>P</b> 0.2-1m [4]	FPOOL WIDTH & RIFFLE WOTH [7]		
Q: 0. ← 0.7 m [2]	O -POOL WEST & APPLE WIST &  4	O FAST(1)	CT-INTERSTITIAL[-1] COND POOL(0)
Die 2 Amilij	D'-POCL WOTH & RIFFLE W. [6]	0"##C022ATE[1]	O-INTERNITENTI-Z
CC.2m (Posi - 4)		篇-\$200 [1]	
CONNENTS			
			BIFFLE: 2
рата слади, ферти	President Sur		ELEVEN FUREDRESS
D. GENERALLY HID cm.A			EXTENSIVE (-1) CHICOGRATE()
C-GENERALLY >19 cm.			
C-GENERALLY 5-10 cm		iranel.Sant) [0]	
O - GENERALLY + 5 cm (	Rille + Dj		
COMMENTS			GRADIENT: +/
6) Gradieni (feetimile):	2_00 XP00	x: <u>95.</u> xa	

EPA 4520

WFZ 8/15/99 QA Manual (6th Update) = Fish = September 20, 1985 <u>9-20-89</u> 9-30-89 Processire No. WOP4-SWS-3 Date issued **Date Effective** \_. **4** Revision No. ....

Figure V-4-5. From side of the Obio EPA Site Description Sheet for evaluating the geographical and physical

characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Hapital Evaluation Index (OHEI).

Chie EPA Sine Depertation Sheet - Flen OHEI SCORE: 16 46 Sheet West Fork
I) SUBSTRATE (Cruce OM PTWO SUBWARD TYME SOLES; Check all (providence); TYPE POOL REFALS POOL REFALS POOL REFALS POOL REFALS OD-BOLLOGA (LARS[*0]
2) INSTREAM COVER SCORE: [4] 2) INSTREAM COVER SCORE: [4] D-UNDERCLT BANKS [1] COVER SCORE: [4] D-UNDERCLT BANKS [1] COVER SCORE: [4] D-UNDERCLT BANKS [1] COVER SCORE: [4] D-UNDERCLT BANKS [1] D-UNDERCLT BANKS [
3] CHANNEL MORPHOLOGY; [Cambo ANLY On PER Cancory OR divert 2 and AVERAGE]       CHANNEL: []         3] CHANNEL MORPHOLOGY; [Cambo ANLY ON PER Cancory OR divert 2 and AVERAGE]       CHANNEL: []         3] SHALDSTTY       DEVELCAMENT       CHANNEL 7/2000         0- HICH [4]       D- EXCELLENT [7]       D- NONE [4]       D- MODERATE [2]       D- MODERATE [2]         0- HODERATE [3]       D- RECEIVERED [4]       D- MODERATE [2]       D- RECONTROL       D- MODERATE [2]         0- MODERATE [3]       D- RECOVERED [4]       D- MODERATE [2]       D- RELOCATION       D- ESANCES         D- MODERATE [3]       D- RECOVERED [4]       D- MODERATE [2]       D- RELOCATION       D- ESANCES         D- MODERATE [3]       D- RECOVERED [4]       D- MODERATE [2]       D- RELOCATION       D- ESANCES         D- MODERATE [3]       D- RECOVERED [4]       D- MODERATE [2]       D- RELOCATION       D- ESANCES         D- MODERATE [3]       D- RECOVERED [4]       D- MODERATE [2]       D- RECOVERED [4]       D- GREED [4]         D- MODERATE [3]       D- RECOVERED [4]       D- MODERATE [2]       D- GREED [4]       D- GREED [4]         D- MODERATE [4]       D- RECOVERED [4]       D- MODERATE [4]       D- GREED [4]       D- GREED [4]         D- MODERATE [4]       D- RECOVERED [4]       D- RECOVERED [4]       D- GREED [4]
4) RIPARIAN 2046 AND BANK EROSION - (sheek ONE box per bank # check 2 and AVERAGE per bank)       RIPARIAN:         **Rvar Right Lookan Connectation**       EROSIONFRUNC#**       RIPARIAN:       Image: Connectation***         RIPARIAN:       EROSIONFRUNC#**       RIPARIAN:       Image: Connectation***         RIPARIAN:       EROSIONFRUNC#**       RIPARIAN:       Image: Connectation***         I. R. (Meen Predominant Per Bank)       I. R. (Meen Predominant Per Bank)       I. R. (Per Bank)         O.D. WIT Existent       OD-FOREST, Strame (2)       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)         O.D. WIT Existent       OD-FOREST, Strame (2)       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)         O.D. WIT Existent       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)         O.D. WIT Existent       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)         I.D. HONECTATION       Strame (2)       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)         I.D. HONECTATION       Strame (2)       Image: Connectation of the strame (2)       Image: Connectation of the strame (2)         I.D. HONECTATION       Strame (2)       Image: Connectation of the strame (2)
PCOLIG LIDE IND RIFFLERUN GUALISTY         POOL:         C           jrag Rifflerun GUALISTY         MORPHO DOTY         POOL:         C           jrag Rifflerun GUALISTY         MORPHO DOTY         POOL:         C           jrag Rifflerun GUALISTY         (Grack 1)         Const All Third Appril)         Const All Third Appril)           jrag Rifflerun GUALISTY         (Grack 1)         (Grack 1)         Const All Third Appril)         Const All Third Appril)           jrag Rifflerun GUALISTY         MORPHO DOTY         (Grack All Third Appril)         Const All Third Appril)         Const All Third Appril)           jrag Rifflerun GUALISTY         MORPHO LINITAL ARIFRLE WIDTH [1]         Const All Third Appril)         Const All Third Appril)         Const All Third Appril)           jrag Rifflerun GUALISTY         MORPHO LINITAL ARIFRLE WIDTH [1]         Const All Third Appril)         Const And Third Appril)         Const And Third Appril)           jrag Rifflerun GUALISTY         Const All Third Appril)         Const And Third Appril)         Const Appril         Const Appril           jrag Rifflerun GUALISTY         Const Appril         Const Appril         Const Appril         Const Appril           jrag Rifflerun GUALISTY         Const Appril         Const Appril         Const Appril         Const Appril           jrag Rifflerun GUALISTY         C
BITTLE PUNCTURE       PRETINATION SUBSTRATE         D- GENERALLY > 10 cm, MAX > 30 (4)       D- GENERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- GENERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLY > 10 cm, MAX > 30 (4)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLE (0/cm + 3 cm + 16)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLE (0/cm + 3 cm + 16)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLE (0/cm + 3 cm + 16)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLE (0/cm + 3 cm + 16)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLE (0/cm + 3 cm + 16)         D- GENERALLY > 10 cm, MAX > 30 (4)       D- MONERALLE (0/cm + 3 cm + 16)         D- GENERALLY > 10 cm, MAX > 10 cm, MAX > 1

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OA Manual (6th Voctate) - Fish - September 30, 1985				WFL
Procedure No.	<u>WOPA-SWS-3</u>	Date Issued	<u>9-30-89</u>	¥16/°
Revision No.	5	Date Effective	9-30-89	

Figure V-4-5. From side of the Obio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI)

Chie EPA Sile Dese: Streng <u>Lavest</u> For K of Long V F L	Vigeon Sheel - Fiz	h. 		<sup>E;</sup> <u>HI</u>
I SUBSTRATE CONTYNES	Substants TYAE ACTES Course	All roman seconds		
TYPE POOL RIPAL	FOOL RIFFLE	SUSSIAT	LOUALITY SUBSTRATE	SCORE: ITTL
		termia Danjin (Char		
	DOWNON X YOU	MESTONE PID-MINA	WP DI D.SILT HEAVY POLDS	
		115 [1] OHAR	OPANIO) C ST. T NORMAL (0)	D-SCT / REF IN
	12-08TATVSD	ANCSTONE IN	Laters Of Emperat	
	з Злактински 🔜 🔜 🖸 С. З	HALE [-1]		C-MCDEPATE; 1
TOTAL NUMBER OF SUBSTRATE T			LOW[0]	Q-ADME[1]
NOTE: prove states was organized	row part-sources; score is based	i on nuuni succembe		
COMMENTS				
· · · · · · · · · · · · · · · · · · ·			COVER S	
IT PISTREAM COVER				
	rk APTNe) Applyj XEDELP POOLS (2)	CI-CIZECWS [1]	check 3 and 4 Y CI - EXTENSIVE	
D ANDERGUT BANKS (1) - COVERHANGING VEGETATION (1)			OPHOTES (1) D. MODERATE	
SHALLOWS (IN SLOW WATER)			Y DEMIS (1) FPARSE F 2	
	,		D NEARLY AND	ENT = 6%(1)
COMMENTS:				
				ANNEL: 4
SI CHANNEL MORPHOLOGY; (GAN			CONTRACTIONS OF LA	
<u>9-AU/05/7Y</u> <u>05/9-09/9</u>			· ENACCINCIA D · MPS	
			- RELOCATION D- ISLA	
Q MCGERATE (3) Q COOD (5) Q - LOW Q: Q - FAIR QL	D RECOVERING (D)		- CANOPY REMOVAL D. LEVI	
X NONE (1) X POOR (1)	A RECENT ON NO			K SHAPING
	RECOVERT (1)	-	D - ONE SIDE CHANNEL MO	
CONVENTS:				
	h			
L R (Per Burk) L1 D::WDESSIN (4) C3 D::WDESSIN (4	ICSICHTUNDET - PLOD PLAT 9. (Maal Predoringen) Per Bani D-FOREST, SWANP (D) (DIPEN PASTURE ROWCROP) D-RESO, PARK NEW FIELD (N)	N CUACITY () L R (Per Bank) D CHARAN CR ( P) C C SHRUE CR (	BANK FROSI NOUSTRIALIO O DIMONE D S.D. RELD[2]	
'Five Rept Leoking Domesian'         #104.4(μη: W/DTH         #55           L R (Per Burk)         L I         L I           D D'-W/DE-Som (4)         CO         CO           O D'-W/DE-Som (5)         OC         OC           MARROW S 10m (2)         OC         OC           D'-WORS AND S 10m (2)         OC         OC           D'-WORS AND S 10m (2)         OC         OC	ICSICHTUNDET - PLOD PLAT 9. (Maal Predoringen) Per Bani D-FOREST, SWANP (D) (DIPEN PASTURE ROWCROP) D-RESO, PARK NEW FIELD (N)	N (2172) (*) L R (fer Bank) D C-URBAN (FR) D C-SHRUB (FR) D C-CONSERV. T	BANK FROSI NOUSTRIALIO O DIMONE D S.D. RELD[2]	<u>Pa</u> Pa A≂E(8)
'From Right Lephong Domission'         ##           Initialized with The         #55           L R (Per Burk)         L 1           L D'-WODESSIM (21)         C 3           D'-WODESSIM (21)         C 3           D'-WODESSIM (21)         C 3           D'-WODESSIM (21)         C 4           C 0'-WARROW S-10m (2)         C 4           D'-WOERY MARROW 1-Stop (2)         C 4           C 0'-WOREQ         C 5           C 0'-WOREQ         C 5	ICSICHPUNOFE - PLOD PLAN (Most Protominum) Per Hani DFOREST, SWANE [2] EOPEN PASTURE/ ROWCROP D-RESC PASTURE (1) DFENCED PASTURE (1)	N (2172) (*) L R (fer Bank) D C-URBAN (FR) D C-SHRUB (FR) D C-CONSERV. T	BANK FROSI NOUSTRIALIO O DIMONE D AD RELDIZI <b>JERN</b> OSPA LLAGE (1) D CHEAVY STRUCTION (9)	<u>Pa</u> Pa A≂E(8)
'From Right Leoking Domission'         #100.48(pt: WPDTH)         #55           Lin Collevation         #100.48(pt: WPDTH)         #100           Lin Collevation         #100.48(pt: WPDTH)         #100           Collevation         #100.48(pt: WPDTH)         #100           Collevation         #100.48(pt: WPDTH)         #100           Collevation         #100.48(pt: WPDTH)         #100.48(pt: WPDTH)           Production         #100.48(pt: WPDTH)         #100.48(pt: WPDTH)	ICSICHPUNOFE - PLOD PLAN (Most Protominum) Per Hani DFOREST, SWANE [2] EOPEN PASTURE/ ROWCROP D-RESC PASTURE (1) DFENCED PASTURE (1)	N GUALITY C L A (Per Bank) D Guadaan CA D	BANK FROSI NOUSTRIALIO O DIMONE D AD RELDIZI <b>JERN</b> OSPA LLAGE (1) D CHEAVY STRUCTION (9)	<u>רא</u> אגנוזהני ה; אדנוזהני ה; אדנוז סא לערדנין
'From Right Lephong Domission'         ##           Initialized with The         #55           L R (Per Burk)         L 1           L D'-WODESSIM (21)         C 3           D'-WODESSIM (21)         C 3           D'-WODESSIM (21)         C 3           D'-WODESSIM (21)         C 4           C 0'-WARROW S-10m (2)         C 4           D'-WOERY MARROW 1-Stop (2)         C 4           C 0'-WOREQ         C 5           C 0'-WOREQ         C 5	ICSICHPUNOFF - PLOD PLAN (Most Protonium) Per Lani >FOREST, SWANF (2) EDPEN PASTURE/ ROWCROP - RESC, PARK NEW FIELD (4) >FEACED PASTURE (1) 	N GUALITY C L A (Per Bank) D Guadaan CA D	BANK FROSI NOUSTRIALIO O DIMONE D SD FELDIZI DIMODIA LLAGE (1) DI CHEAVY STRUCTION (D)	<u>רא</u> אגנוזהני ה; אדנוזהני ה; אדנוז סא לערדנין
"From Right Leaking Domission"         #164.4(un): WEDTH         #55           L R (Per Burk)         L I           L D'-WIDESSIM (4)         CO           D'-WIDESSIM (4)         CO           CO'-WIDESSIM (4)         CO           POOLASLIDE AND ASSILEADIN (5)         CO           CO-WIDESSIM (5)         CO           POOLASLIDE AND ASSILEADIN (5)         CO           CO-WIDESSIM (5)         CO           POOLASLIDE AND ASSILEADIN (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO           CO-WIDESSIM (5)         CO	ICSICHPUNDEE - PLOD PLAN R (Most Presentant) Per Bani FOREN PASTURE / ROWCROP PRESC AARK NEW FIELD (1) PERCED PASTURE (1) ITY <u>MCAPHOLOGY</u>	N GUAL (** 4) L. R. (** Bunk) D. Guardani (*) 1) D. Shrindi (*) 0) Ganaria (*) 0) Ganaria (*) 1) Ganaria (*) 2) Ganaria (*) 2) (*)	RANK FROSI NOUSTRIALIO O DIMONE D AD RELDIZI DIMOSTRI LLAGE (1) D CHEAVY STRUCTION (0) STRUCTION (0) MEALE CLIORENT VEL COTY RM ANNY)	
"From Right Leaking Domission"         #16A4(Int) WIGTH         #55           L ID : WIDESSIM (21)         #55           L ID : WIDESSIM (21)         L ID	<u>IOSICH/PUI(QFF</u> - <u>PLDÓ) PLA(</u> R. (Most Predeninmi) Per Bani >FOAEST, SWANP () (DPEN PASTURE ROWCRDP) > RESO, AARX NEW FIELD (1) >FENCED PASTURE (1) UTY <u>MCAPHOLOGY</u> (Chron 1)	N CURCITY () L R (Pre Barb) D Curdenn CR ( D Curden CR ( ) Curden CR (	BANK FROSI NOLISTRIALIO O DIMONE D AD RELDIZI <b>JECH</b> OGER LLAGE (1) O CHEAVY STRUCTION (9) <u>HEALE CLIMPENT VELCCTY</u> RM AMP) 1) O'EDOLER (1) O'UNTERSTITAL[-1]	<u>רא</u> אגנוזהני ה; אדנוזהני ה; אדנוז סא לערדנין
"From Right Lesiong Domission"         #162.4 (John WEDTH)         #55           L R (Per Bank)         L D           L D WODASSIM (21)         L D           D D WODASSIM (21)         L D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D P	ICSIC-YFULIOFT - (LICO) PLAN R. (Most Partoninam) Per Bani D-FOREST, SWANF [2] RDPEN PASTURE/ ROWCROP D-RESO, AARXINEW FIELD [1] D-FENCED PASTURE (1) UTY <u>MCARHOLOGN</u> (Chick 1) WIDTH > RIFZLE WIDTH [2]	N CUALITY () L. R. (Per Bank) D. Cualdian CR. ( D. Conserv. T D. Conserv. T D. Conserv. T D. Conserv. T (Charle Anti Cr-TOARENTAL) O'-HOOEALTE (1)	BANK FROSI NOLISTRIALIO O DIMONE D AD RELDIZI <b>JECH</b> OGER LLAGE (1) O CHEAVY STRUCTION (9) <u>HEALE CLIMPENT VELCCTY</u> RM AMP) 1) O'EDOLER (1) O'UNTERSTITAL[-1]	
"From Right Lesiong Domission"         #164.4(An: WFOTH         #55           IL R (For Bank)         L IL         L IL           CD :-WDDSS0m (21)         CD         CD           CD :-WDRS(Q)         CD         CD           D :: 5 (4)         CD         CD           D :: 5 (4)         CD         CD           D :: 6 (4)         CD         CD           D :: 7 (4)         CD :-POCL         CD           D :: 6 (2)         CD :-POCL         CD :-POCL	<u>ICSIC-4FULKOFF</u> - <u>PLDOD PLA</u> <b>Most Protominent Per Bani</b> DFOREST, SWAAF [2] <b>IC</b> DPEN PASTURE/ ROWCROP D-RESO, PARK NEW FIELD [1] D-FENCED PASTURE (1) <u>MCARHOLOGN</u> (Chres 1) WIDTH - RIFFLE WIDTH [2] WIDTH - RIFFLE WIDTH [2]	N CURCITY () L R (Pre Barb) D Curdenn CR ( D Curden CR ( ) Curden CR (	BANK FROSI NOLISTRIALIO O DIMONE D AD RELDIZI <b>JECH</b> OGER LLAGE (1) O CHEAVY STRUCTION (9) <u>HEALE CLIMPENT VELCCTY</u> RM AMP) 1) O'EDORER 1 O'UNTERSTITAL[-1]	
"From Right Lesiong Domission"         #162.4 (John WEDTH)         #55           L R (Per Bank)         L D           L D WODASSIM (21)         L D           D D WODASSIM (21)         L D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D D           D D WODASSIM (21)         D P	<u>ICSIC-4FULKOFF</u> - <u>PLDOD PLA</u> <b>Most Protominent Per Bani</b> DFOREST, SWAAF [2] <b>IC</b> DPEN PASTURE/ ROWCROP D-RESO, PARK NEW FIELD [1] D-FENCED PASTURE (1) <u>MCARHOLOGN</u> (Chres 1) WIDTH - RIFFLE WIDTH [2] WIDTH - RIFFLE WIDTH [2]	N CUALITY () L. R. (Per Bank) D. Cualdian CR. ( D. Conserv. T D. Conserv. T D. Conserv. T D. Conserv. T (Charle Anti Cr-TOARENTAL) O'-HOOEALTE (1)	BANK FROSI NOLISTRIALIO O DIMONE D AD RELD[2] CHEAVY I STRUCTION [9] (JEALE CLIBRENT VELOCITY RM APPY) 4] CHEORES II DIMITERSTITIAL[-1] [ CHATERMITTENT[-2]	
Town Rona Lesking Domasolan'         Prick Allen's WINTH         ES           In 10 Allen's WINTH         ES           L C (Per Burk)         L ()           L D'-WODESSIM (1)         L ()           D'-WODESSIM (1)         L ()           D'-WODESSIM (1)         D ()     <	<u>ICSIC-4F9U(405F7</u> - <u>6.000 PLA</u> ) R. (Most Preforminent) Per Bani D-FOREST, SWAAM [7] <b>IC</b> 0PEN PASTURE (7) <b>IC</b> 0PEN PASTURE (7) <b>IC</b> 0PEN PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PASTURE (7) <b>IC</b> 0PENCED PA	N GUALITY           C DUARDAN CRI           Y COMPARTY           C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C MARANGCON           Y C M	BANK FROSI NOLISTRIALIO O DIMONE D AD RELD[2]	
Tever Ren Lesking Domessian'         PréAdjen: WRTH         ES           I (R. (Per Burk)         L. (L. (L. (L. (L. (L. (L. (L. (L. (L. (	<u>ICSIC-YPUINOFF</u> - <u>PLOD PLAN</u> R (Most Preferingen) Per Ban D-FORES - SWARP [2] <b>IC</b> PEN PASTURE (1) <b>IC</b> PEN PASTURE (1) <b>IC</b> PENCED PASTURE (1) <b>IC</b> Y <u>IC</u> ANASTORY E (1) <b>IC</b> Y WIDTA - RIFPLE W. (1) WIDTA - RIFPLE W. (1) <u>PICAL CRUN 515</u>	N GUALTY           C L A (Are Bank)           D DUARAN CAL           COMBANISCON           P(11) MARCON           COMBANISCON	BANK FROSI NOLISTRIALIO O DIMONE D AD RELD[2] CHEAVY I STRUCTION [9] (JEALE CLIBRENT VELOCITY RM APPY) 4] CHEORES II DIMITERSTITIAL[-1] [ CHATERMITTENT[-2]	
Terrer Right Lesking Domission*         #162.4 (JAN 1977)         #55           IL R (Per Bank)         L I           L D'-WIDESSIM (4)         L I           D'-WIDESSIM (4)         L I           D'-WIDESSIM (4)         L I           D'-WIDESSIM (4)         L I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I           D'-S'-WIDESSIM (4)         D I           D'-S'-WIDESSIM (4)         D I           D'-S'-WIDESSIM (4)         D I           D'-WIDESSIM (4)         D I	IOSICAYPUNOFF         • 0.000 PLAN           • (Most Predominant) Per Bani DefOREST, SWAMP [2]         • 0.000 PLAN           • 0.000 PASTURE [2]         • 0.000 PLAN           • 0.000 PLAN         • 0.000 PLAN	N GUALTY           C L A (Are Bank)           D DUARAN CAL           COMBANISCON           P(11) MARCON           COMBANISCON	BANK FROSI           NOLISTRIALIOI O CHAONE D           LLAGE (1)         CHABAVY I           STRUCTION (0)           STRUCTION (0)           STRUCTION (0)           STRUCTION (0)           CHARANY I           CHARANY I <tr< td=""><td></td></tr<>	
Tever Ren Lesking Domessian'         PréAdjen: WRTH         ES           I (R. (Per Burk)         L. (L. (L. (L. (L. (L. (L. (L. (L. (L. (	IOSICAYPUNOFF         • 0.000 PLAN           • (Most Predominant) Per Bani DefOREST, SWAMP [2]         • 0.000 PLAN           • 0.000 PASTURE [2]         • 0.000 PLAN           • 0.000 PLAN         • 0.000 PLAN	<ul> <li>К. С. И. С. К. К. К. К. К. К. К. К. К. К. К. К. К.</li></ul>	BANK FROSI           NOLISTRIALIOI O D-MONE D           ND FELDIZI           ND FELDIZI           ND FELDIZI           ND FELDIZI           ND FELDIZI           STRICTION [D]           UPRICTION [D]           UPRICTION [D]           D'EDGIESII           D'EDGIESII           D'EDGIESII           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]	
Town Right Lesking Domission?           PrickAller: WIGTH           E.D.: WIDESSIM (2)           L.D.: WIDESSIM (2)           D.: WIDESIM (2)	<u>ICSICAPPUINCET</u> - <u>6.000 PLA</u> R (Most Partoninent) Per Bani D:FOREST, SWAAP [2] [DPEN PASTURE/ ROWCROP D: RESO, AARX, NEW FIELD [1] D:FENCED PASTURE (1) <u>ILTY</u> (Chick 1) MIDTA - RIFFLE W.DTA [2] WIDTA - RIFFLE W.DTA [2] WIDTA - RIFFLE W.DTA [2] <u>D</u> STABLE (4.0.0	<ul> <li>К. С. И. С. К. К. К. К. К. К. К. К. К. К. К. К. К.</li></ul>	BANK FROSI           NOLISTRIALIOI O DI MONE D           LLAGE (1)         D CHEGAVY I           STRUCTION [0]           DI ANTERSTITUAL[-1]	
Town Ren Lesking Domission*           Prick Ren With TH           Prick Ren With TH           L D'-WIDESSIM (1)           L D'-WIDESSIM (1)           D'-WIDESSIM (1) </td <td><u>ICSICAPPUINCET</u> - <u>6.000 PLA</u> R (Most Partoninent) Per Bani D:FOREST, SWAAP [2] [DPEN PASTURE/ ROWCROP D: RESO, AARX, NEW FIELD [1] D:FENCED PASTURE (1) <u>ILTY</u> (Chick 1) MIDTA - RIFFLE W.DTA [2] WIDTA - RIFFLE W.DTA [2] WIDTA - RIFFLE W.DTA [2] <u>D</u>STABLE (4.0.0</td> <td><ul> <li>К. С. И. С. К. К. К. К. К. К. К. К. К. К. К. К. К.</li></ul></td> <td>BANK FROSI           NOLISTRIALIOI O D-MONE D           ND FELDIZI           ND FELDIZI           ND FELDIZI           ND FELDIZI           ND FELDIZI           STRICTION [D]           UPRICTION [D]           UPRICTION [D]           D'EDGIESII           D'EDGIESII           D'EDGIESII           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]</td> <td></td>	<u>ICSICAPPUINCET</u> - <u>6.000 PLA</u> R (Most Partoninent) Per Bani D:FOREST, SWAAP [2] [DPEN PASTURE/ ROWCROP D: RESO, AARX, NEW FIELD [1] D:FENCED PASTURE (1) <u>ILTY</u> (Chick 1) MIDTA - RIFFLE W.DTA [2] WIDTA - RIFFLE W.DTA [2] WIDTA - RIFFLE W.DTA [2] <u>D</u> STABLE (4.0.0	<ul> <li>К. С. И. С. К. К. К. К. К. К. К. К. К. К. К. К. К.</li></ul>	BANK FROSI           NOLISTRIALIOI O D-MONE D           ND FELDIZI           ND FELDIZI           ND FELDIZI           ND FELDIZI           ND FELDIZI           STRICTION [D]           UPRICTION [D]           UPRICTION [D]           D'EDGIESII           D'EDGIESII           D'EDGIESII           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]           D'ENTERSTITAL[-1]	
Town Right Lesking Domission*         Prick Allen: WROTH         ES           Init Allen: WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           L D' - WROTH         ES           COL-NONEQN         ES           COL-STITH         ES           COL-S	<u>ICSIC-4791(QCFT</u> - <u>6.1000 PLA</u> R (Most Partoninent) Per Ban D-FOREST, SWAMP [2] RDPEN PASTURE (1) D-FENCED PASTURE (1) D-FENCED PASTURE (1) <u>MIDTA - RIFFLE WOTH [2]</u> WIDTA - RIFFLE WOTH [2] WIDTA - RIFFLE WOTH [1] WIDTA - RIFFLE WOTH [1] <u>D-STABLE (c.g.,C</u> D-AL20, STABLE (c.g.,C	<ul> <li>К. С. И. С. К. К. К. К. К. К. К. К. К. К. К. К. К.</li></ul>	ANY FROST      NOLISTRIAL(0) O D-MONE D      LO PELD[2] COMONE D      LO PELD[2] COMONE D      LO PELD[2] COMONE      LO PELD[2] COMONE D      LO PELD[2] COMONE      LO PELD[2] C	
Town Ren Lesking Domission?           Prick Ren Ren March           Prick Ren Ren March           L D'-WIDESSIM (2)           D'-WIDESSIM (2)	<u>ICSIC-4791(QCFT</u> - <u>6.1000 PLA</u> R (Most Partoninent) Per Ban D-FOREST, SWAMP [2] RDPEN PASTURE (1) D-FENCED PASTURE (1) D-FENCED PASTURE (1) <u>MIDTA - RIFFLE WOTH [2]</u> WIDTA - RIFFLE WOTH [2] WIDTA - RIFFLE WOTH [1] WIDTA - RIFFLE WOTH [1] <u>D-STABLE (c.g.,C</u> D-AL20, STABLE (c.g.,C	N. GUALITY           C. L. R. (Pre Bank)           D. DUARAN CR.I           O. DUARAN CR.I           O. DUARAN CR.I           O. DUARAN CR.I           O. DUARAN CR.I           O. DUARAN CR.I           O. DUARAN CR.I           O. JASTIN           O. HODERATE [1]           C. HODERATE [1]           STRATE           STRATE </td <td>BANK FROST NOLISTRIALIO O DIMONE D AD RELD[2] DIMONE D STRUCTION [0] (IFALE CLIMBENT VELOCITY AN AMAY) (I DI-EDOLERI) DIMITERSTITIAL[-1] DIMITERS</td> <td></td>	BANK FROST NOLISTRIALIO O DIMONE D AD RELD[2] DIMONE D STRUCTION [0] (IFALE CLIMBENT VELOCITY AN AMAY) (I DI-EDOLERI) DIMITERSTITIAL[-1] DIMITERS	

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QA I	Manual (6th Update) – Fis	n – September 30, 1999	
Procedure No.	<u>WOPA-\$W5-3</u>	Date Issued	<u>9-20-89</u>
Revisión No.	8	Date Effective	9-30-89



Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

Chie EPA Sits Dezeription Shest - Fich OHEI SCORE: Col Stram Smith Lac M
11 SUBSTRATE (Chose Ore, I'Ten Summer TYPE BOXES: Chest of types present;
TTEL JOOL NETLE POOL NUTLE SUBSTRATE SUBSTRATE SCORE; DET 1
OCHLDER/SLARSTOTBOGRAVE,[7] 📈 Substantin Crients all Const (Sheets Crient
O GROULDEA (N) O GRAND N? 💉 O LEARESTONE (ND ARMANA (N) G. SLT HEAVY (-210 SLT MODERATE (-1))
TOTAL NUMBER OF SUBSTRATE TYPES A 21 CAL FREST
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COMMENTS
COVER SCORE: [13]
3) \$457782AAC COVER <u>TYTE</u> (Check AUThor Apply) shock 2 and AVERAC 2)
S. SHALLOW YOUND LOW WATER [1] D. SOLLDERS [1] & LOCS OF WOODY DEBAS [1] O. SPARE F28% [3]
D - MEARLY ABSENT + SW(1)
1] CHARNEL MORPHOLODY; (Check OVE 7 One PER Category OR check 2 and AVERAGE)       CHARNEL: []]         SINCOSTY       DEVELOPMENT       EMANNEL IZATION       STARLETY       MEDICICATIONS/DTHEFT         D. HIGH (4)       D. EXCELLENT [7]       D. HONE [6]       D. HONE [7]       D. STARLETY       MEDICICATIONS/DTHEFT         B. HODERATE [7]       D. FORMERT       EMANNEL [7]       D. HONE [6]       D. STARLETY       MEDICICATION       D. BADOLIND.         B. HODERATE [7]       D. FRECOVERED [4]       R. HODERATE [7]       D. FRECOVERED [4]       R. HODERATE [7]       D. FRECOVER [7]         D. LOW [2]       B. FARR [3]       M. RECOVERING [7]       D. CANOPY PREMARL D. LEVEED         D. NONE [1]       D. FRECOVER [1]       D. CANOPY PREMARL D. LEVEED         D. NONE [1]       D. RECOVER [1]       D. TREDGING       D. BANK SHAPING         COMMENTS:       MEDICATION       D. EXAMPLE       D. BANK SHAPING
<] RIPARIAN ZONE AND TANK PROSION - (check ONE bay per bank or check 2 and AVERAGE per bank) RIPARIAN: 10 -
"Rver Right Looking Downstream"
PARIAN WIDTH RECEIVENNER - PLOCO MAIN CUALITY RANK EROSION
L R (Per Bank) L R (Most Predominant Per Bank) L R (Per Bank)
o of Widelson (K) (Concest, Swaw P) (Coursean or Ridustrian, K) (Concerts (R) [7] Coo was easily to be for a start reference of coosting of the croup field (Courseante (Courseante (Courseante (
BO-NARROW S-10m [2] CIC- ALEGO_PARK, SEW FIELD [1] CO-CO-SERV, TILLAGE [1] CIC-HEAVY OR SEVERE[1] [DGL/VEAY NARROW 1-5m [1] CIC-FENCED PASTURE [1] CIC-AUNINGCONSTRUCTION [0]
DC///CEAL AND A CALL CONTRACT AND A CALL CONTRACT OF CALL CALL CALL CALL CALL CALL CALL CAL
POOLOUDE AND REFLETRIN QUALITY POOL: 9
MAX DESTA (Charle 1) MORPHOLOGY POOLENWORTH CORRENT VELOCITY
B > cm (£, (Check 1) (Check All That Apply)
D-5.7 (m[4] [5. FOOL WIDTH > REF.E WIDTH [2] D-TORRENTIAL(-I) D-FODRES(1)
O 0.4.6,76 [2] O FOOL WIGTH RIFFLE WOTH (1) O FAST(1) O POTERSTITUL[-1] D NO POOL(0)
C
RIFRLE: Q
CENERALLY > 10 cm (MAX>50 [4]     D_STABLE [4.9, Cobin, 30/000 [2]     O-EXTENSIVE [-1] D-MODERATE[0]     D_COUNTRY = 10 cm (1) [2]     D_COUNTRY = 10 cm (1) [2]
D-GENERALLY =10 cm/max/s0[0] D-MOD. STABLE (No. Pro Grave) (1) SLOW. [1] O-MONE[1]
D-GENERALLY S-10 cm/MAX/250[3] D-MOD. STABLE (NS. PAG GRAVE) (1) D-MONE[2] G. GENERALLY S-10 cm [1] GUINSTABLE (Gravel, Sand) (0) D-MONE[2]
D-GENERALLY S-10 cm (1) D-NONE21 G. GENERALLY S-10 cm (1) D-NONE21 D-GENERALLY S-10 cm (1) D-NONE21 D-NONE2
D-GENERALLY S-10 cm/MAX/250[3] D-MOD. STABLE (NS. PAG GRAVE) [1] PLOW. [1] D-MONE[2] G. GENERALLY S-10 cm [1] GUINSTABLE (Gravel, Sand) [0] D-MONE[2]
D-GENERALLY NO CONNECTION (1) D-NONE (1) D-N
D-GENERALLY NO CONNECTION (1) D-NONE (1) D-N

SF: 8/14/

OA .	Marwal (6th Update) – F	ish - September 30, 1989	
Procedure No	<u>WOP4-5W5-3</u>	Onte Issued	<u>9-30-89</u>
Revision No.		Date Effective	9-30-89

Figure V-4-5, Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Oualitative Habitat Evaluation Index (QHEI).

Onle EPA Site Description Sheet - Fi	
Brun SF2	Cover LS D I CLAS
1 SUBSTRATE COME OVE TT BO SUD-DOM TYPE BOXES: CAR	at all trans arrantific
	SUBSTRATE SUBSTRATE SCORE: ST
	Lubrarios Cristia (Crient all) Sin Cover (Check One)
	LIMESTONE [1] HIMAN (7) O'SILT HEAVY [4] (42 (42 CLT MODERATE :1]
	TILLS [1] DHARDPANIQ C SIT NORMAL TO C. BLT FREE (1)
	AMOSTONE (C)
	SHALE [1] O-EXTENSIVE [-1] O-MODERATE
TOTAL NUMBER OF SUBSTRATE TYPES 4 (2)	
COMMENTS	COVER SCORE: 10
IT NUTREAM COVER TYPE (Crack AFTIN; Apply)	check ] and AYERAGD
	C-C222/2WS [1] C-ETTENSIVE - 71% [1]
	LEADURIC MACADYNYTES (1) C-MCOLDARE 25-78% [7]
	PAGES OF WOODY DEEPES (1) - SPARSE S-25% [2]
(Carallows (IN SLOW WATER (1) / O BOLLDERS (1)	
f comments:	· · · · · · · · · · · · · · · · · · ·
	CHANNEL: 19 -
3 CHANNEL MORPHOLOGY: (Check ONLY One PER Category C	
SYXXISTY DEVELOPMENT CHANNELIZATION	
O - NOR (4) D - EXCELLENT (7) O - NONE (4)	
D MODERATE DI D GOOD (S D RECOVERED (4) .	
A LOW [2] A FAIR [2] A RECOVERING [2]	
"D. NONE [1] "D. POOR [1] D. RECENT OR NO	
RECOVERY [1]	D - ONE SIDE CHANNEL MODIFICATIONS
COMMENTS	
4) SIFARIAN ZONE AND BANK, PROSICH - (cruck GNE bas per	bank er check 2 and AVERABE par bank) RIPARIAN: 6
"River Right Looking Downstream"	
"Rever Apple Looking Downstream" BIRLENAN WOTH EPIDEONIESINGET - 8.000 PL	
"River Augic Looking Downsteam" <u>River and Wro Ty</u> <u>EPOSION PRUNCE</u> - <u>B.000 FL</u> L. R. (Per Back) L. R. Glost Predominent Par Ba	And CLIAILTY BANK SECOND MRILL R (Per Sank)
"Rever Replic Looking Downstream"         EPOINT PROPERTY - 6,000 FL           L R. (Rev Sector)         L R. (Rev Sector)           L R. (Rev Sector)         L R. (Rev Sector)           D C: WODE-Sector(*)         D C: FOREST, SWAMP (2)	AN OUSELITY <u>BANK EROSION</u> MELI LI R (Per Sunk) DO-URBANI CA MOUSTRIALIO, DI DINONE OR LITTLE (1);
"Rever Replic Looking Downstream"         EPOINT PROVIDE - 6,000 PL           III President WYC TV         EPOINT PROVIDE - 6,000 PL           III President Presid	ANY CASH ITY BANK EROSION NEL L R (Per Sank) DO-URBAN CA WOUSTRIAL(C) D D-NONE CR LITTLE (2) MOJ CO-SARAGE OR OLD RELOZE D D-MCDERATE(2)
"River Rught Looking Downstream" <u>RIPLOYAN WOTZ</u> <u>ERCENDERTROPE</u> - <u>BLOOD FL</u> L         R. (Rest Ruch)         L         R. (Such Predominant Par Ba           D.:: WODE-Som (*)         D:: PARDE-Som (*)         D:: PARDE-Som (*)         D:: PARDE-Som (*)           D.:: WODE-Som (*)         D:: PARDE-Som (*)         D:: PARDE-Som (*)         D:: PARDE-Som (*)           D::: WODE-Som (*)         D:: PARDE-Som (*)         D:: PARDE-Som (*)         R: PARDE-Som (*)           D::: WODE-Som (*)         D:: PARDE-Som (*)         R: PARDE-Som (*)         R: PARDE-Som (*)           D::: WODE-Som (*)         D:: PARDE-Som (*)         R: PARDE-Som (*)         PARDE-Som (*)	Ani OJALITY <u>BANK EROSION</u> NEL L R (Per Sanh) DO-URBAN CRIMOUSTRIALIO D O-NONE CRILITLE (2) MOJO CO-SMELO CRI DELEXE <b>S O</b> MCOERATE(2) (1) DO-CONSERV. TLLAGE (1) D O-HEAVY OR SEVERE[1]
'River Rugit Looking Downstream'         EPOINT WEINDER - 6,000 ft.           RIPLOJAN WOTZ         EPOINT WEINDER - 6,000 ft.           L R (Per Jack)         L R (Aper Production) For Ba           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)           D : WODE-Som (*)         D : FOREST, SWAMP (2)	ANY CASH ITY BANK EROSION NEL L R (Per Sank) DO-URBAN CA WOUSTRIAL(C) D D-NONE CR LITTLE (2) MOJ CO-SARAGE OR OLD RELOZE D D-MCDERATE(2)
"River Regist Looking Downstream"         EPOINT/FUNCT:         EPOINT/FUNCT:         6,000 ft           L R (Per Back)         L R (Alone Predominiant Per Back)         L R (Alone Predominiant Per Back)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)	Ani OJALITY <u>BANK EROSION</u> NEL L R (Per Sanh) DO-URBAN CRIMOUSTRIALIO D O-NONE CRILITLE (2) MOJO CO-SMELO CRI DELEXE <b>S O</b> MCOERATE(2) (1) DO-CONSERV. TLLAGE (1) D O-HEAVY OR SEVERE[1]
"River Augle Looking Downstream"         EPOINT REVOLUTION PROVIDED A COLOR PROVIDA COLOR PROVIDED A COLOR PROVIDED A COLOR PROVIDED A COLOR PRO	ANI OUSLITY ANI OUSLITY DOUDBAN CA WOUSTRIALOI D O-NONE OR LITTLE (2) MOJ OCISMBUR OR OLD RELOVE MOJ OCISMBUR OR OLD RELOVE MOJ OCISMBUR OR OLD RELOVE DOUDCONSERV. TALLAGE (1) DOUDCONSERV. TALL
"River Regist Looking Downstream"         EPOINT/FUNCT:         EPOINT/FUNCT:         6,000 ft           L R (Per Back)         L R (Alone Predominiant Per Back)         L R (Alone Predominiant Per Back)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)           D : WODERSON (*)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)         D:0-FOREST, SWAMP (2)	ARI OJALITY ARI OJALITY DO-URBAN CA WOUSTRIALOLO D C-NONE OR LITTLE (2), MOJ OC SHRUP OR OLD RELOVED D C-NONE OR LITTLE (2), MOJ OC SHRUP OR OLD RELOVED D C-NEAVY OR SEVERE[1] D C-LIMBNOLT ON STRUCTION [0] POOL:
"River Augle Looking Downstream"         EPOINT REVOLUTION PROVIDED A COLOR PROVIDA COLOR PROVIDED A COLOR PROVIDED A COLOR PROVIDED A COLOR PRO	ARI OJALITY <u>BANK EROSION</u> ARI L R (Per Sunh) DO-URBAN CA MOUSTRIALIOI D O-NONE CH LITTLE (2), MOJ CO-SARLA CH MOUSTRIALIOI D O-NONE CH LITTLE (2), MOJ CO-SARLA CH MOUSTRIALIOI D O-NONE CH LITTLE (2), MOD CONSERV. TALAGE (1) D O
"River Regist Looking Downstream"         EXCESSION/FRUNCET - (\$,000 ft.)           I. R. (And WYCT)         EXCESSION/FRUNCET - (\$,000 ft.)           I. R. (And WYCT)         EXCESSION/FRUNCET - (\$,000 ft.)           I. R. (And WYCT)         I. R. (And Predominiant Par Ball           I. J. WYCTE-Som (*)         DD-FOREET, SWAMP (2)           I. J. WYCTE-Som (*)         I. J. (*)           I. J. WYCTE-Som (*)         DD-FOREET, SWAMP (2)           I. J. WYCTE-Som (*)         I. J. (*)           I. J. WYCTE-Som (*)         DD-FOREET, SWAMP (*)           I. J. WYCTE-Som (*)         I. J. (*)           I. J. MARCH (*)         J. (*)           I. J. MARCH (*)         J. J. (*)           I. J. MYCTE-Som (*)         J. J. (*)           I. J. MYCTE-Som (*)         J. J. (*)	
"River Rught Looking Downstream"     River Rught Looking Downstream"       River Rught Looking Downstream"     River Rught Looking Downstream"       L R (Per Rught)     L R (Rught Registream)       D : Words Som (*)     D : Pontest, servame (s)       D : Words Rught Registream (*)     D : Pontest, servame (s)       D : Words Rught Registream (*)     D : Pontest, servame (s)       D : Words Rught Registream (*)     D : Pontest, servame (s)       Rigs Werdy Nakadow 1-Sm (*)     D : Pontest Rught Registream (s)       Pool of Line And Rught Line (*)     Ministream (s)	And Oxfall TTY         BANK: EROSION           Maki L R (Per Sank)         DO-URBAN CR WOUSTRIAL(D) D D-NONE OR LITTLE (D)           DO-URBAN CR WOUSTRIAL(D) D D-NONE OR LITTLE (D)           Major Construction (D)           Major Construction (D)           DO-CONSERV. TALACE (I)           D-CONSERV. TALACE (I)           D-CONSERV. TALACE (I)           D-CONSERV. TALACE (I)           D-CONSERV. TALACE (I)
"River Augle Looking Downstream"         EPOINT PRINCIPAL         EPOINT PRINCIPAL PRINCIPAL PRINCIPAL         EPOINT PRINCIPAL PRINCipAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCipAL PRINCIPAL PRINCIPAL PRINCipAL PRINCIPAL PRINCipAL PRINCiPAL PRINCipAL PRINCipAL PRINCipAL PRINCIPAL PRINCIPAL PRINCipAL PRINCIPAL PRINCiPAL PRINCiPAL PRINCIPA	
"River Augle Looking Downstream"         EPOINT PRINCIPAL         EPOINT PRINCIPAL PRINCIPAL PRINCIPAL         EPOINT PRINCIPAL PRINCipAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCipAL PRINCIPAL PRINCIPAL PRINCipAL PRINCIPAL PRINCipAL PRINCiPAL PRINCipAL PRINCipAL PRINCipAL PRINCIPAL PRINCIPAL PRINCipAL PRINCIPAL PRINCiPAL PRINCiPAL PRINCIPA	
"River Augle Looking Downstream"         EPOINT REVOLUTION FLOORE         EDOCOMPRIMONE         EDOCOMPRA	ANI COSALITY ANI COSALITY DO-LIRBAN CA WOUSTRIAL(D) D D-NONE OR LITTLE (D) DO-LIRBAN CA WOUSTRIAL(D) D D-NONE OR LITTLE (D) MOD CONSERV. TALAGE(1) D D-NONE OR LITTLE (D) MOD CONSERV. TALAGE(1) D D-NEAVY OR SEVERE(1) D D-CONSERV. TALAGE(1) D D-HEAVY OR SEVERE(1) D D-MARGEORENTIAL(1) D D-NONE (D) PCOL: PCOL: (Cred: ANTINE Apply) D'-MORENTIAL(1) D'-MORESTRIAL(1) D'-MORENTIAL(1) D'-MORESTRIAL(1)
"River Augle Looking Downstream"         EPOINT EVENTS         EPOINT EVENTS         EPOINT EVENtS         6,000 Pril           L         R. (Par Bank)         L         R. (Alow Predominum): Par Bank)         L         R. (Alow Predominum): Par Bank)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)         D: VerDE-Som (*)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)         D: VerDE-Som (*)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D:: VerDE-Som (*)         D: VerDE-Som (*)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D: VerDE-Som (*)         D: VerDE-Som (*)           D::: VerDE-Som (*)         D:: VerDE-Som (*)         D: VerDE-Som (*)         D: VerDE-Som (*)	And Oxfall TY         BANK EROSION           Maki L R (Per Sunk)         DO-URBAN OR MOUSTRIAL(0) D D-NONE OR LITTLE (1);           DO-URBAN OR MOUSTRIAL(0) D D-NONE OR LITTLE (1);           Maki J D-CONSERV. TALAGE (1) D D-NONE OR LITTLE (1);           DO-CONSERV. TALAGE (1) D D-NONE OR LITTLE (1);           DO-CONSERV. TALAGE (1) D D-HEAVY OK SEVERE(1)           D-TORRENTIAL(1) D HEAVE (1)           D-HO PODUS           D-HO PODUS           D-HEAVE (1)           D-HEAVE (1)
"River Augle Looking Downstream"       RIVER JAN WYD TX       EPOINT RIVERT - 6,000 PL         L R (Per Back)       L R (Algel Presidenting & Per Back)       L R (Algel Presidenting & Per Back)         D T-WODE Som (*)       D D FOREST, SWAMP (2)         D T-WODE Som (*)       D D FOREST, SWAMP (2)         D T-WODE Som (*)       D D FOREST, SWAMP (2)         D T-WODE Som (*)       D D FOREST, SWAMP (2)         D T-WODE Som (*)       D D FOREST, SWAMP (2)         D T-WODE Som (*)       D D FOREST, SWAMP (2)         D T-WODE SOM (*)       B GO PEN PASTURE (*)         D T-WONE[0]       D FOREST (2)         COMMENTS:       (*)         POOL (1) DE AND FRY LLYNUN ODAUTTY         MAX D TETT (*)       MTT (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * NONE[0]       (*)         D * OD, WDTH * NIFFLE WDTH [2]       *)         D * OD, WDTH * NIFFLE WDTH [2]       *)         D * OD, WDTH * NIFFLE W. [8]       *)	And Ostal TTY         BANK EROSION           Mali I, R (Per Sunk)         DO-DURBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           DO-DURBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           Mali I, R (Per Sunk)           Mali I, R (Per Sunk)           DO-DURBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           Mali I, R (Per Sunk)           DO-DURBAN OR OLD RELOX           Mali III           DO-DONSERV. TALACE (I)           DO-DONSERV. TALACE (I)           DO-MANG-CONSTRUCTION (D)           POOL:           Provide ANTINE Apply)           O'-FOREMINIL(-1)           O'-MODERATE (I)           BIFFLE:
"River Augle Looking Downstream"         EXCEPTION/FUNCT:         EXCEPTION/FUNCTION:         EXCEPTION FUNCTION:         EXCEPTION FUNCTION:         EXCEPTION FUNCTION:         EXCEPTION FUNCTION:         EXCEPTION FUNCTION:         EXCEPTION:         EXCEPTION: <th< td=""><td>ARI COSALITY         BANK EROSION           MALI L R (Par Sank)         DO-URBAN CA WOUSTRIALIOI D O-NONE OR LITTLE (2),           DO-DURBAN CA WOUSTRIALIOI D O-NONE OR LITTLE (2),           MIDIO CONSERV. TALAGE (1)         D O-NONE CALITTLE (2),           DO-CONSERV. TALAGE (1)         D O-HEAVY OR SEVERE[1)           DO-CONSERV. TALAGE (1)         D O-HEAVY OR SEVERE[1]           DO-CONSERV. TALAGE (1)         D O-HEAVE OR SEVERE[1]           CO-MONDERATE (1)         D -HEAVE OR SEVERE[1]           CO-HONDERATE (1)         D -HEAVE OR SEVERE[1]           CO-MODERATE (1)         D -HEAVE OR SEVERE[1]           INSTRACTOR (1)         RIFFLE:           INFOLEMENT FARENTS         RIFFLE:</td></th<>	ARI COSALITY         BANK EROSION           MALI L R (Par Sank)         DO-URBAN CA WOUSTRIALIOI D O-NONE OR LITTLE (2),           DO-DURBAN CA WOUSTRIALIOI D O-NONE OR LITTLE (2),           MIDIO CONSERV. TALAGE (1)         D O-NONE CALITTLE (2),           DO-CONSERV. TALAGE (1)         D O-HEAVY OR SEVERE[1)           DO-CONSERV. TALAGE (1)         D O-HEAVY OR SEVERE[1]           DO-CONSERV. TALAGE (1)         D O-HEAVE OR SEVERE[1]           CO-MONDERATE (1)         D -HEAVE OR SEVERE[1]           CO-HONDERATE (1)         D -HEAVE OR SEVERE[1]           CO-MODERATE (1)         D -HEAVE OR SEVERE[1]           INSTRACTOR (1)         RIFFLE:           INFOLEMENT FARENTS         RIFFLE:
"River Augle Looking Downstream"     RIVER JAN WYD TY     ERCISION/RUNCHE - 6,000 FL       L R (Per Back)     L R (Augle Predominum) For Back       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE Som (*)     D D FOREST, SWAMP (2)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (I)       D T WODE SOM (*)     M (2) PENCED PASTURE (*)       D T WODE SOM (*)     M (2) PENCED PASTURE (*)       D T WODE SOM (*)     M (2) PENCED PASTURE (*)       D WODE SOM (*)     M (2) PENCED PASTURE (*)       D WODE SOM (*)     M (2) PENCED PASTURE (*)       D WODE SOM (*)     M (2) PENCED PASTURE (*)       D WODE SOM (*)	ANY CODE         BANK EROSION           MALI L R (Per Sank)         DOLURBAN CR MOUSTRIAL(0) D D-NONE OR LITTLE (1)           DOLURBAN CR MOUSTRIAL(0) D D-NONE OR LITTLE (1)           MODOLONSERV. TALAGE (1)         D D-NONE OR LITTLE (1)           DOLONSERV. TALAGE (1)         D D-NONE OR LITTLE (1)           DOLONSERV. TALAGE (1)         D D-NONE OR LITTLE (1)           DOLONSERV. TALAGE (1)         D D-HEAVY OR SEVERE(1)           CONSTRUCTION (1)         D D-HEAVY OR SEVERE(1)           CONSTRUCTION (1)         D D-HEAVY OR SEVERE(1)           CONSTRUCTION (1)         D HEAVY OR SEVER(1)           MINING (1)         D HEAVY OR SEVER(1)           INFELE:         INFELE:           INFELE:         INFELE:           INFELE:
*Rever Augles Looking Downstream"     EPOISTON/FRUNCET - 6,000 ft.       I. R. (Area Bank)     I. R. (Area Bank)       I. R. (Area Bank)     I. R. (Area Bank)       I. R. (Area Bank)     I. R. (Area Bank)       I. D.: ANDEL-Som (*)     D.D.FOREST, SMAMP (2)       I. D.: ANDEROW S NOR (2)     I. S.G.O.F.N. PASTUREY ROWCKG       I. D.: ANDREW S NOR (2)     I. S.G.O.F.N. PASTUREY ROWCKG       I. D.: ANDREW S NOR (2)     I. D.FENCED PASTUREY ROWCKG       I. D.: ANDREW S NOR (2)     I. S.G.O.F.N. PASTUREY ROWCKG       I. D.: ANDREW S NOR (2)     I. S.G.O.F.N. PASTUREY ROWCKG       I. D.: STABLE (* 9)     D.S.TABLE (* 9)	And Oxfall TY         BANK EROSION           Mall I, R (Per Sank)         DOLUBBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           DOLUBBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           Mail I, R (Per Sank)           DOLUBBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           Mail I, R (Per Sank)           DOLUBBAN OR MOUSTRIAL(D) D. D-NONE OR LITTLE (D)           Mail II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
"River Augles Looking Downstream"         EPOSISION/FRUNCET - (\$,000 ft.)           I. R. (Aller Sank)         I. R. (Aller Revolution) (Posision)           I. D. (Aller Sank)         I. R. (Aller Revolution) (Posision)           I. D. (WODE, Som (*)         D.D.FOREST, SMAMP (2)           I. D.: (WODE, Som (*)         D.D.FOREST, SMAMP (2)           I. D.: (WODE, Som (*)         D.D.FOREST, SMAMP (2)           I. D.: (WODE, Som (*)         D.D.FOREST, SMAMP (2)           I. D.: (WODE, Som (*)         D.D.FOREST, SMAMP (2)           I. D.: (WODE, Som (*)         D.D.FOREST, SMAMP (2)           I. D.: (WODE, SOM (*)         D.D.FOREST, SMAMP (2)           I. S. (WODE, SOM (*)         D.FENCED PASTURE (II           I. S. (WODE, SOM (*)         D.FENCED PASTURE (II           I. S. (WODE, SOM (*)         D.S.FABLE (*)           I. S. (WODE, SOM (*)         D.S.FABLE (*)           I. S. (WODE, SOM (*)         D.S.FABLE (*)           I. S.FABLE (*)         D.S.FABLE (*)	And Oxfall TY         BANK EROSION           Mall I, R (Per Sank)         DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           Mail I, R (Per Sank)           DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           Mail I, R (Per Sank)           DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           II DOLCONSERV. TALACE (I) D. D-HEAVY OR SEVERE(I)           II DOLCONSERV. TALACE (I) D. CONSTRUCTION (D)           POOL:
*Rive: Augit: Looking Downstream"       EPOINT/FLINDET - 6, DOD FL         III P. 40, AN WYD TX       EPOINT/FLINDET - 6, DOD FL         III P. 40, AN WYD TX       EPOINT/FLINDET - 6, DOD FL         III P. 40, AN WYD TX       EPOINT/FLINDET - 6, DOD FL         III P. 40, AN WYD TX       EPOINT/FLINDET - 6, DOD FL         III P. 40, AN WYD TX       EPOINT - 6, DOD FLINDET - 6, DOD FLI	ANY CODE         BANK EROSION           MALI LA (Per Sank)         DOLURBAN OR MOUSTRIAL(D)         DONONE OR LITLE [2],           DOLURBAN OR MOUSTRIAL(D)         DONONE OR LITLE [2],           MODIONSERV. TALACE (1)         DOLONE OR LITLE [2],           DOLONSERV. TALACE (1)         DOLONSTRACTION [2],           POOL:         POOL:           (Create AN TOW Apply)         OUTORERATION [1],           OUTORERATION [1],         D'ANTERSTITUL[1],           OUTORERATION [2],         O'ANTERSTITUL[1],           OUTORERATION [2],         O'ANTERSTITUL[1],           OUTORERATION [2],         O'ANTERSTITUL[1],           OUTORERATION [2],         O'ANTERSTITUL[1],           OUTORERATION [2],         O'ANTERSTITUL[2],           ITESTRATE [1],         O'ANTERSTITUL[2],           ITESTRATE [2],         D'EXTENSIVE [4:1] O'NDOEANT[2],           ITESTRATE [2],         D'EXTENSIVE [4:1] O'NDOEANT[2],           ITESTRATE [2],         D'EXTENSIVE [4:1] O'NDOEANT[2],<
*Rever Augles Looking Downstream"       EPOISTON/FRUNCET - (\$,000 ft.)         I. R. (Alles Augles Augles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. D. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. J. (ALLES AUgles)       I. R. (Allest Predominique Per Baseline)         I. J. (ALLES AUgles)       I. (I. (Allest Per Baseline)         I. S. (I. (I. (I. (I. (I. (I. (I. (I. (I. (I	And Oxfall TY         BANK EROSION           Mall I, R (Per Sank)         DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           Mail I, R (Per Sank)           DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           Mail I, R (Per Sank)           DOLURBAN CR MOUSTRIAL(D) D. D-NONE OR LITTLE (D);           II DOLCONSERV. TALACE (I) D. D-HEAVY OR SEVERE(I)           II DOLCONSERV. TALACE (I) D. CONSTRUCTION (D)           POOL:
"River Augle Looking Downstream"         EPOISTON/FRUNCET - 6,000 FL           I. R. (Alles Aux)         I. R. (Allest Presidenting the Baseling of the Ba	And Oxfall TY         BANK EROSION           Mail I, R. (Par Sank)         OD-URBAIN OR MOUSTRIAL(0)         D D-NONE OR LITTLE (1);           OD-URBAIN OR MOUSTRIAL(0)         D D-NONE OR LITTLE (1);           Mail I, R. (Par Sank)         D D-NONE OR LITTLE (1);           Mail I, R. (Par Sank)         D D-NONE OR LITTLE (1);           Mail III         D D-NONE OR LITTLE (1);           III D-CONSERV. TALACE (1)         D D-HEAVY OK SEVERE(1);           IIII D-CONSERV. TALACE (1)         D D-HEAVY OK SEVERE(1);           IIIII D-CONSERV. TALACE (1)         D D-HEAVY OK SEVERE(1);           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
"River Augle Looking Downstream"         EPOISTON/FRUNCET - 6,000 FL           I. R. (Alles Aux)         I. R. (Allest Presidenting the Baseling of the Ba	And Oxfall TTY         BANK: EROSION           Mall I. R. (Per Sank)         DD.URBAN CRIWOUSTRIAL(D) D. D.NONE OR LITTLE (D);           DD.URBAN CRIWOUSTRIAL(D) D. D.NONE OR LITTLE (D);           Mail I. R. (Per Sank)           DD.CONSERV. TRUCCE(1)         D. D.NONE OR LITTLE (D);           DD.CONSERV. TRUCCE(1)         D. D.NONE OR LITTLE (D);           DD.CONSERV. TRUCCE(1)         D. D.HEAVY OR SEVERE(1)           D.C.TORRENJIKU(-1)         D. HEAVERNICH (D);           C.TORRENJIK(-1)         D. HONDERNIC(-1);           C.TORRENJIK(-1)         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIENTIAL(-1);           C.TORRENJICK(-1);         D.HEAVERTIENTIE(-1);           C.TORRENJICK(-1);         D.HEAVERTIENTIE(-1);           COMORATE (N);         D.HEAVERTIENTIE(-1);           IPSTRATE         RIFFLE:           IPSTRATE         D.HEAVERTENTIE(-1);           COMORATE (N);         D.HONERS;           GRADIENT; [A];         D.HONERS;<
"River Augle Looking Downstream"       EPOISTON/FRUNCET - 6,000 FL         I. R. (Alles Augle VICTS)       EPOISTON/FRUNCET - 6,000 FL         L. R. (Alles Augle)       I. R. (Allest Presonanent Per Baseling)         D. J. MCD2EASOM (*)       D.D.FOREST, SMAMP (2)         D.J. MCD2EASOM (*)       D.D.FOREST, SMAMP (2)         D.J. MCD2EASOM (*)       D.D.FOREST, SMAMP (2)         D.J. MCD2EASOM (*)       D.D.FOREST, SMAMP (2)         D.J. MCD2EASOM (*)       D.D.FOREST, SMAMP (2)         D.J. MCD2EASOM (*)       D.D.FENCED PASTURE (*)         D.J. MCD2EASOM (*)       M.S. (*)         D.J. MCD2EASOM (*)       M.S. (*)         D.J. MCD2EASOM (*)       M.S. (*)         D.J. MCD2EASOM (*)       M.S. (*)         D.J. MCD2EASOM (*)       D.FENCED PASTURE (*)         D.S. (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S. (*)         D.* (*)       M.S.	And Oxfall TY         BANK EROSION           Mail I, R. (Par Sank)         OD-URBAIN OR MOUSTRIAL(0)         D D-NONE OR LITTLE (1);           OD-URBAIN OR MOUSTRIAL(0)         D D-NONE OR LITTLE (1);           Mail I, R. (Par Sank)         D D-NONE OR LITTLE (1);           Mail I, R. (Par Sank)         D D-NONE OR LITTLE (1);           Mail III         D D-NONE OR LITTLE (1);           III D-CONSERV. TALACE (1)         D D-HEAVY OK SEVERE(1);           IIII D-CONSERV. TALACE (1)         D D-HEAVY OK SEVERE(1);           IIIII D-CONSERV. TALACE (1)         D D-HEAVY OK SEVERE(1);           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
"River Augle Looking Downstream"         EPOISTON/FRUNCET - 6,000 FL           I. R. (Alles Aux)         I. R. (Allest Presidenting the Baseling of the Ba	And Oxfall TTY         BANK: EROSION           Mall I. R. (Per Sank)         DD.URBAN CRIWOUSTRIAL(D) D. D.NONE OR LITTLE (D);           DD.URBAN CRIWOUSTRIAL(D) D. D.NONE OR LITTLE (D);           Mail I. R. (Per Sank)           DD.CONSERV. TRUCCE(1)         D. D.NONE OR LITTLE (D);           DD.CONSERV. TRUCCE(1)         D. D.NONE OR LITTLE (D);           DD.CONSERV. TRUCCE(1)         D. D.HEAVY OR SEVERE(1)           D.C.TORRENJIKU(-1)         D. HEAVERNICH (D);           C.TORRENJIK(-1)         D. HONDERNIC(-1);           C.TORRENJIK(-1)         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIENTIAL(-1);           C.TORRENJICK(-1);         D.HEAVERTIENTIE(-1);           C.TORRENJICK(-1);         D.HEAVERTIENTIE(-1);           COMORATE (N);         D.HEAVERTIENTIE(-1);           IPSTRATE         RIFFLE:           IPSTRATE         D.HEAVERTENTIE(-1);           COMORATE (N);         D.HONERS;           GRADIENT; [A];         D.HONERS;<
"River Augles Looking Downstream"       EXCEPTION/FEUNCET - 6,000 FL         I. R. (Area Bank)       I. R. (Area Bank)       I. R. (Area Bank)         I. D. (ANDERSON (*)       D.D.FOREST, SMAMP (2)         D.D. (ANDERSON 54 100 (2)       If (COMPATING FT FT FT FT FT FT FT FT FT FT FT FT FT	And Oxfall TTY         BANK: EROSION           Mall I. R. (Per Sank)         DD.URBAN CRIWOUSTRIAL(D) D. D.NONE OR LITTLE (D);           DD.URBAN CRIWOUSTRIAL(D) D. D.NONE OR LITTLE (D);           Mail I. R. (Per Sank)           DD.CONSERV. TRUCCE(1)         D. D.NONE OR LITTLE (D);           DD.CONSERV. TRUCCE(1)         D. D.NONE OR LITTLE (D);           DD.CONSERV. TRUCCE(1)         D. D.HEAVY OR SEVERE(1)           D.C.TORRENJIKU(-1)         D. HEAVERNICH (D);           C.TORRENJIK(-1)         D. HONDERNIC(-1);           C.TORRENJIK(-1)         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIAL(-1);           C.TORRENJIK(-1);         D.HEAVERTIENTIAL(-1);           C.TORRENJICK(-1);         D.HEAVERTIENTIE(-1);           C.TORRENJICK(-1);         D.HEAVERTIENTIE(-1);           COMORATE (N);         D.HEAVERTIENTIE(-1);           IPSTRATE         RIFFLE:           IPSTRATE         D.HEAVERTENTIE(-1);           COMORATE (N);         D.HONERS;           GRADIENT; [A];         D.HONERS;<

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c	)A Manual (6th Update) – Fe	sh. – September 30, 1989	
Procedure No.	<u>WCPA_\$W\$_3</u>	Date Issued	<u>9-30-69</u>
Revision No.	<u>F</u>	Ome Effective	<u>5-30-89</u>

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographicat and physical characteristics of tish sampling locations. This is used to record information for the calculation of the

Qualitative Habitat Evaluation Index (QHEI).

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Onio EPA Simi	Description Sheet For K	t - (Figuri	SHELSCI	DRE: 🔂 48
Logitor SF1	+ <b>-</b>		Crew FIR	
	QYT no Substano TYPE BOX	15: Chart of Sun survey		
	LRFAÉ MOL	RUPPLE SUBSTRA	TROUMER SUBSTRA	TE SCORE: CTTL ()
	CHIGRAVE_[7] X	K Subarras Crasto (Ca		
QO-4LDER (SLABS(**)			ист оп) <u>Sty Comm (C</u> Ривар (0) D-Silt Heavy (-3	
			ANNA NI DOILI HEAAA 13	THE FLIT HODERATE [1]
00-coest (n) 🕺			ARDPANIO D-SILT NORM	
		O SANGSTONE (0)		Baddensis (Check Gre)
общискр) <u> </u>	OO-ARTIFIC (0]	OSH4LE[+]		E[-2] D-HODERATE[-1]
	TRATE TYPES: 💁 4 [2] 🕰 - 44			O-NCNE(;
NOTE: jonore skeige water	grades from particulation; and	ne ie bened on names supera	uma (	
			<u>i</u>	
,			COVE	:R SCORE: [7] -
2) INSTREAM COVER	•	•	AMACAUNTIN	Instal CALLY Gree or
11	PE (Check Af That Apply)		<ul> <li>check 2 an</li> </ul>	A VERAGE
O ANOERCUT SANKS [1]	BLOGEA POC	LS [2] Q. 402BOWS [3]	CI-EXTEN	SNE = 75% [13]
D-OVERHANDING VEGET			CROPHYTES IN U. MOOD	
TANALLOWS (IN SLOW )		LIN ALLOGS ON WO	COY DEMOS (10 SPARS	E 5-29% (3)
		4.5 <b>6</b> - 4.1 - 1.	CI. NEAR	A A A A A A A A A A A A A A A A A A A
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				ELANCS
O MODERATE DI O C			D-CANOPY REMOVAL D	
		NG (D) D - LOW (4)		BANK SHAPAG
	OOR [L] D- NECENT C			
COMMENTS:	AECOVE	(1) TR	U-ONE SIZE CHANNE	
approximation and the second sec	ANK EROSION - (elect ONE t	Na bei etter in Cance 3 durb	AV DRACK per bank	WEARING 1941
River Agri Locked Downey <u>Burganish Wroth</u> L. R. (Per Bank)	EROSIONAUNOSE - EL	•		
River Aght Looking Downson <u>But ARIAN WIDTH</u>	EROSIONAUNOSE - EL	000 PLAIN QUALITY (Per Bank) L Å (Per Ban)	•	
River Agrit Looking Downer <u>BIFARIAN WOTH</u> L. R. (Per Benk)	LACSIONFRUNDAS - EL L. R. (Non Predominen CERTSTOREST, Straum (1	000 PLAIN QUALITY (Per Bank) L Å (Per Ban)	N N N MOLISTRIALIO CI D-MC	POSION .
Rever Agrit Locieng Downson <u>BIRARIAN WOTH</u> L. R. (Per Benk) DIT-WIDE-X0m (4) DIT-NOCERATE 1040 (	LAN" <u>EROSIONTRUNO<sup>45</sup> - EL</u> L. R. (Mani Preasininen SERFOREST, SYRAMP (1 1) DO-OPEN PASTURE: P	COD PLAIN QUALITY Par Bank) L A (Par Ban) CO-URBAN C DWC ROP(0) CO-SPRUE C	() Я моцетяницај с. с. но поцо пецојај <b>с с.</b> но	NE ON LITTLE (2)
"River Agrit Looking Downson <u>BURARIAN WOTH</u> L. R. (Per Benall D. D. WIDE-NIM [4] D. D. MODERATE 10-30 F D. D. MARROW S-10m [2]	ANN' EACSIONAUNOSE EL L. R. (Basi Pricombian SECFOREST, Strand ( DOOPEN PASTURE) R DOOPEN PASTURE R DOOPEN PASTURE REW	COD PLAIN SWALTY (Per Bank) L. A (Per Bank) () OC-URAAN C OC-URAAN C OC-URAAN () OC-URAAN () OC-URAAN () OC-CONSERN	N HOUSTRIALLO O D-HO H HOUSTRIALLO O D-HO H OLO FIELD(2) SECTION ( TRLAGE(1) O D-HE	NE OR LITTLE (2)
"River Agrit Looking Downson <u>BURARIAN WYDTH</u> L. R. (Per Benki D. D. WIDERATE 10-30 F D. D. NOERRAN S-10m [2] (D. NARROW S-10m [2] (D. KARROW S-10m [2] (D. KARROW S-10m [2]	LAN" <u>EROSIONTRUNO<sup>45</sup> - EL</u> L. R. (Mani Preasininen SERFOREST, SYRAMP (1 1) DO-OPEN PASTURE: P	COD PLAIN SWALTY (Per Bank) L. A (Per Bank) () OC-URAAN C OC-URAAN C OC-URAAN () OC-URAAN () OC-URAAN () OC-CONSERN	() Я моцетяницај с. с. но поцо пецојај <b>с с.</b> но	NE OR LITTLE (2)
*River Agrit Locking Downson <u>BIRARIAN WTOTH</u> L R (Per Benal D D'-NIDE-SOM [4] D D'-NIDE-RATÉ 10-30 (5) D D'-NARROW S-10m [2] (200-NONE[0]	ANN' EACSIONAUNOSE EL L. R. (Basi Pricombian SECFOREST, Strand ( DOOPEN PASTURE) R DOOPEN PASTURE R DOOPEN PASTURE REW	COD PLAIN SWALTY (Per Bank) L. A (Per Bank) () OC-URAAN C OC-URAAN C OC-URAAN () OC-URAAN () OC-URAAN () OC-CONSERN	N HOUSTRIALLO O D-HO H HOUSTRIALLO O D-HO H OLO FIELD(2) SECTION ( TRLAGE(1) O D-HE	NE OR LITTLE (2)
*Rever Agrit Lacking Downson <u>BURARIAN WTOTH</u> L. R. (Per Benkl D. D. WIDE: Nom [4] D. D. MODERATE 10-00 ( D. D. MODERATE 10-00 ( D. MARROW S-10m [2] (MARROW S-10m [2] (COMMENTS:	ANN ESCSIONFRUNDES - EL J. R. (Nobil Production SEFOREST. SWARF ( DO OPEN PASTURE) IN DO RESD. PARCINEW IN OO FENCED PASTURE IN OO FENCED PASTURE	COD PLAIN SWALTY (Per Bank) L. A (Per Bank) () OC-URAAN C OC-URAAN C OC-URAAN () OC-URAAN () OC-URAAN () OC-CONSERN	N HOUSTRIALLO O D-HO H HOUSTRIALLO O D-HO H OLO FIELD(2) SECTION ( TRLAGE(1) O D-HE	NE OR LITTLE []) OZRATE (2) AVY OR SEVERE(1)
TRIVER Agrit Locking Downsite <u>Butta Agrit Locking</u> Downsite <u>Butta Agrit Locking</u> D. 21-WIDE-2000 [4] D. 21-WIDE-2000 [4] D. 21-WARROW S-1000 [2] Table VERY NARROW 1-S LICT-NOVE[0] COUNSENTS: PODUAGLIDE AND REFELERS	ANN' EACSIONFAUNDES - EL L R (Basi Protomium SECOREST, SYNAP (C DO OPEN PASTURE) M DO RESD, PARKNEW IO RESD, PARKNEW IO OPENCED PASTURE UN QUALITY	000 PLAIN SWALTY 2 PER BANA) L A (PER BANA 3 CO-URBBANA 3 CO-URBBANA MED (1) CO-SAMUB O AED (1) CO-CONSERN [1] CO-BANING/C	HANK P RI HOUSTRIALION O D-MO RI OLO FIELDIZI JECHIO A TRILAGE III O D-HE CHISTRUCTION [0]	POOL:
*River Agrit Looking Downson <u>BURARIAN WYDTH</u> L R (Per Benkl O D'-MIDE-RMTE 1040 F O D'-MODERATE 1040 F O D'-MARROW S-10m [2] "JERE VERY NARROW I-S COMMENTS: PODUCELIDE AND REFELER <u>MAX_DEP</u> TH_ICINES 1]	ANN EACSIONFRUNDES - EL L R (Basi Predominan SECFOREST, Stranff ( DOPEN PASTURE) DO RESD, PARKNEW IDO RESD, PARKNEW IN QUALITY MCRPHOLOGY	000 PLAIN SUALITY 2 PUR Banh L A (PUR Banh 1) 00-URBAN C 00-URBAN C 00-URBAN C PELD (1) 00-CONSERT [1] 00-MINIC/C POOLARIA		POOL:
*River Agrit Looking Downson <u>BURARIAN WEDTH</u> L. R. (Per Benki D. D. WIDE-RATE 10-40 F D. D. WIDE-RATE 10-40 F D. D. WIDE-RATE 10-40 F C. WIDE-RATE 10-40 F EGG-WIDE-RATE 10-40 F POGLIGLIDE LAND REFELERS <u>MAX_DE</u> ?TH_ICNECK 1] D. 210(4)	ANN ERCSIONFRUNDEE EL L R (Mais Predominan EFOREN PASTARF) DOOPEN PASTARF) DOOPEN PASTARF DOOPEN PASTARF ION REALTY MCREACOLOGY (Check 1)	000 PLAIN SUALITY (Par Bank) L A (Par Bank) 00-URBAN C 00-URBAN C 00-CASHUB O FRED (1) 00-CONSERN (2) 00-MINING/C PCOL/FALL (Check A	BANK P A HOUSTRIALO O D-MO H OLO FIELD(2) SECTION A TALAGE (1) O D-HE CHSTRUCTION (0) INRIFELE CURRENT VELO # The Apply)	POOL:
*River Agrie Looking Downess <u>Busacelian Wright</u> L R (Per Benal D J-MODERNIE 10-309 [4] D J-MODERNIE 10-309 [4] D J-MODERNIE 10-309 [7] (0054 VERY NARROW 5-10m [2] (0054 VERY NARROW 5-10m [2] (0054 VERY NARROW 5-10m [2] (0054 VERY NARROW 5-10m [2] D J-MONE[0] D J-MONE[0] D J-MONE[1] D J-MO(4) D -0.7-1m [4]	EACTSCONFRUNCCES - ELI     L. (Massi Procession     L. F. (Massi Procession     L. Confest. Strain ()     DO-OPEN PASTURE     DO-OPEN PASTURE     DO-OPEN PASTURE     DO-OPENCED PASTURE     MOGPACIOLOGY     MOGPACIOLOGY     (Obert 1)     POCL WIDTH > AIFFLE WED	ЭЭД Р. А.Н. ЗИЛЦТТІ           (Per Bank)         С. С. (Per Bank)           ()         ОС-ЦИВАНІ С           ()         ОС-ЦИВАНІ С           ()         ОС-САКЕЙА           (1)         ОС-САКЕЙА	() () () () () () () () () ()	
*River Agrit Lacking Downaid <u>BURARIAN WYDTH</u> L. R. (Per Benal D. D.: WIDE-Som (4) D. D.: MODERATE 10-30 ( D. D.: MODERATE 10-30 ( D. D.: MORENTS D. D.: MORENTS D. D.: MORENTS MARROW S-10m (2) D. STO(4) D. STO	EACTONY FUNDES - ELI     A (Moni Procession     L R (Moni Procession     COPEN PASTURE     COPEN PASTURE     COPEN PASTURE     COPEN PASTURE     MORENCED PASTURE     MORENCED PASTURE     MORENCED PASTURE     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]	ООВ Р. А.И. 20/АПТ!           Per Bank)         L. Я. (Рег Вак)           ()         ОО-СИЧЕВАН С           COVERAN C         ОО-СИЧЕВАН С           CMC ROMOL OD-SHALLE O         ОО-СИЧЕВАН С           (1)         ОО-ГАНЕВАН С		POOL: 5
*River Agrit Looking Downey BURARIAN WYDTH L. R. (Per Benkl D.D.: WIDE-KOM [4] D.D.: WIDE-KOM [4] D.D.: ALREAN S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.D.: KARROW S-100 [2] (D.: KAROW S-100 [2] (D.: KAROW S-100 [2] (D.: KARROW S-100	EACTSCONFRUNCCES - ELI     L. (Massi Procession     L. F. (Massi Procession     L. Confest. Strain ()     DO-OPEN PASTURE     DO-OPEN PASTURE     DO-OPEN PASTURE     DO-OPENCED PASTURE     MOGPACIOLOGY     MOGPACIOLOGY     (Obert 1)     POCL WIDTH > AIFFLE WED	OD PLAIN SVALTY           EWERNAN L A (WERNAN COURSAN)           OD-URBAN COURSAN           OMCROP(I) OD-CONSERN           PED (I) OD-CONSERN           PCOLADI           PCOLADI           CONSERN           PCOLADI           CONSERN           PCOLADI           CONSERN           PCOLADI           CONSERN           PCOLADI		POOL: 5
TRIVET AGTL Lacking Downaid <u>BURARIAN WTOTH</u> L. R. (Per Benkl O. D'-MOCERATE 10-00 ( O. D'-MOCERATE 10-00 ( O. D'-MORENTS D' D'-MOCERATE 10-00 ( O. D'-MORENTS D' D'-MOCERATE 10-00 ( D' D'-M	EACTONY FUNDES - ELI     A (Moni Procession     L R (Moni Procession     COPEN PASTURE     COPEN PASTURE     COPEN PASTURE     COPEN PASTURE     MORENCED PASTURE     MORENCED PASTURE     MORENCED PASTURE     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]	ООВ Р. А.И. 20/АПТ!           Per Bank)         L. Ř. (Per Bank)           I)         CO-URBAN C           CIVIC ROMO         CO-SANUS O           RED (I)         OD-CONSEN           [1]         OD-MNING/C           POOL/AU         C           [2]         CO-MNING/C           POOL/AU         C           [2]         CO-MNING/C           [1]         CO-MNING/C           [2]         CO-MNING/C           [2]         CO-MNING/C           [1]         CO-MNING/C		POOL: 5
"River Agric Looking Downline <u>Busaniak WPDTH</u> L. R. (Per Benall           D.D. WIDE-Som [4]           D.D. WIDE-Som [6]           D.D. WIDE-Som [7]           D.D. WIDE-Som [8]           COMMENTS:           PODUCCIDE AND REFELERS           MAX_DEPTH_ICNERK [1]           D.= 1m [4]           D.= 0. <m[1]< td=""></m[1]<>	EACTONY FUNDES - ELI     A (Moni Procession     L R (Moni Procession     COPEN PASTURE     COPEN PASTURE     COPEN PASTURE     COPEN PASTURE     MORENCED PASTURE     MORENCED PASTURE     MORENCED PASTURE     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]     COPEN 1]	OD PLAIN SVALTY           EWERNAN L A (WERNAN COURSAN)           OD-URBAN COURSAN           WWCROP(I) OD-CONSERN           PED (I) OD-CONSERN           PCOLADIN           PCOLADIN           CONSERN           PCOLADIN           CONSERN           PCOLADIN           PCOLADIN           CONSERN           PCOLADIN		BOSION WE OR LITTLE (D) OZRATE (2) AVY DR SEVERE(1) BOOL: 5
"River Agric Looking Downlass Busachiak WTDTH           L R (Per Benal           DD-WIDE-Nom [4]           DD-WIDE-Nom [4]           DD-WIDE-Nom [4]           DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-00 [ DD-00 [ DD-00 [ DD-00 [	ANN' ERCSIONATINOCE - EL L R (Bain Procession CONTENT CONTENT CONTENT CONTENT CONTENT (CONTENT) CONTENT (CONTENT) CONTENT CONTENT (CONTENT) CONTENT (CONTENT) CONTENT CONTENT (CONTENT) CONTENT CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) (CONTEN	000 PLAIN QUALITY           PW BAN)         L A (PW BAN)           IV GOLIRAN C           DWC ROM()         OD-CANSEN           DWC ROM()         OD-CANSEN           FED (I)         OD-CANSEN           III         OD-MANING/C           POOD/ALL         [Check A           IV [2]         D'TCARENTY           TH [1]         CT-FAST[1]           IV         O'-MCOGRATE           JMCSLOW [1]         CHESLOW [1]	BANK P REMOUSTRIALION C. DMC REMOUSTRIALION C. DMC REMOUSTRIALION (C) STALLAGE (1) O. DME CONSTRUCTION (C) STALLAGRIN STALLAGRIN CONTERSTITUALION (1) OINTERNATION (C)	POOL: S
"River Agric Looking Downlass Busachiak WTDTH           L R (Per Benal           DD-WIDE-Nom [4]           DD-WIDE-Nom [4]           DD-WIDE-Nom [4]           DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-MODERATE 10-00 [ DD-00 [ DD-00 [ DD-00 [ DD-00 [	ANN' ERCSIONATINOCE - EL L R (Bain Procession CONTENT CONTENT CONTENT CONTENT CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) CONTENT (CONTENT) (CO	OD PLAIN SVALTY           EWERNAN L A (WERNAN COURSAN)           OD-URBAN COURSAN           WWCROP(I) OD-CONSERN           PED (I) OD-CONSERN           PCOLADIN           PCOLADIN           CONSERN           PCOLADIN           CONSERN           PCOLADIN           PCOLADIN           CONSERN           PCOLADIN		RUSION NE OR LITTLE D) OZRATE[2] AVY DR SEVERE(1) POOL: 5
TRIVER Agrit Locking Downaid           BURARIAN WOTH           L R (Per Benall           D D: WIDE-Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]           D D: Som [4]	ANN' ERCSKONFRUNDES - EL L R (Basi Predominum SINGEREST, SYNAMP (C DOPEN PASTURE) M DO RESD, PARCHER DO RESD, PARCHER IN QUALITY MCREACIOST (Check I) CHOCL WIDTH - RIFFLE WD DOCL WIDTH - RIFFLE WD DOCL WIDTH - RIFFLE WD	000 PLAIN QUALITY           PW BAN)         L A (PW BAN)           IV GOLIRAN C           DWC ROM()         OD-CANSEN           DWC ROM()         OD-CANSEN           FED (I)         OD-CANSEN           III         OD-MANING/C           POOD/ALL         [Check A           IV [2]         D'TCARENTY           TH [1]         CT-FAST[1]           IV         O'-MCOGRATE           JMCSLOW [1]         CHESLOW [1]	BANK P REMOUSTRIALION C. DMC REMOUSTRIALION C. DMC REMOUSTRIALION (C) STALLAGE (1) O. DME CONSTRUCTION (C) STALLAGRIN STALLAGRIN CONTERSTITUALION (1) OINTERNATION (C)	RUSION NE OR LITTLE D) OZRATE[2] AVY DR SEVERE(1) POOL: 5
TRVEF Agrit Locking Downaid           BURARIAH WEDTH           L           R           POILARIAN WEDTH           L           R           POILARIAN WEDTH           L           R           POILARIAN           DI-WODERATE 10-00 (F           DI-WODERATE 10-00 (F           DI-WODERATE 10-00 (F           DI-WODERATE 10-00 (F           COMMENTS:           POILARIANTS!           POILARIANTS!           DI-WODERATE!           DI-WOMENTS!           DI-WOMENTS!           DI-WOMENTS!           RIFFITERENTS!	ANN' ERCSKONTRUNDES - EL L R (Basi Predominan DOPEN PASTURE DOPEN PASTURE DO RESD, PARCHER DO RESD, PARCHER IDO RESD, PARCHER MORENOLOGI (Object 1) POOL WIDTH - RIFFLE WD D-POOL WIDTH - RIFFLE WD D-POOL WIDTH - RIFFLE W. [ RIFFLE ROSD [4] D-STAB	ODD PLAIN SUALITY           EWERAND L A (WERRAN O GOURSAN O GOURSAN O GOURSAN O PED (1) OD-CONSERV (1) OD-C	ANK P RI HOUSTRIALO O D-HO R OLD FELD[2] JELMAC N TRLAGE[1] O D-HE CHSTRUCTION [0] INAINELS CURRENT VELO S That Apply] UI-11 O'-EDOGS[1] O'-INTERSTATAL(- II) O'-ENTERSTATAL(- ANTELSALIN FLAGED) O-ENTERSIVE [-1] O- ENTERSIVE [-1] O-	BOSION NE OR LITTLE D) OZRATE(2) AVV DR SEVERE(1) POOL: 5 III POOL: 5 III POOL: 5 POOL:
*River Agrit Looking Downaid           BIRARIAN WYDTH           L R (Per Benal           D.T. MODERATE 10-30 (F           D.T. MORENTS:           PODUGLIOE AND REFELER           VAX DEPTH (Origon 1)           D100 (H)	EACTONY FUNDOLS - ELI     EACTONY FUNDOLS - ELI     EACTONY FUNDOLS - ELI     EACTONY FUNDOLS - ELI     ECONPER PASTURE - ELI     CONTACT - ELI     CON	COD PLAIN QUALITY           Per Bank)         L         A (Per Bank)           ()         COLURBAN C           CMC ROP(0)         CO SHUB O           PRED (4)         OD-CONSER           (1)         COLURBAN C           POD/ABL         COLURBAN C           (1)         COLURBAN C           POD/ABL         COLUBAN C           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           COLUBA	ANK P RI HOUSTRIALO O D-HO R OLD FELD[2] JELMAC N TRLAGE[1] O D-HE CHSTRUCTION [0] INAINELS CURRENT VELO S That Apply] UI-11 O'-EDOGS[1] O'-INTERSTATAL(- II) O'-ENTERSTATAL(- ANTELSALIN FLAGED) O-ENTERSIVE [-1] O- ENTERSIVE [-1] O-	SDSIDM           NECORLITTLE [D]           DERATE(2)           AVY DR SEVERE(1)           POOL:           STT
TRIVER Agrit Locking Downaid           BURARIAN WEDTH           L R (Per Benall           D.D. WIDE-Som [4]           D.D. WARROW S-10m [2]           D.D. WARROW S-10m [2]           D.D. WIDE-SOM [4]           D.S. MILES           D.D. TIM [4]           D.S. MILES           D.S. MILES           D.GENERALLY > 10 cm.MAR           D. GENERALLY > 10 cm.MAR           D. GENERALLY > 10 cm.MAR           D. GENERALLY > 10 cm.MAR	ант" <u>ERCSION FRUNDCE</u> - EL L R (Main Proceeding ECOPEN PASTURE) IDO RESD, PARCINEW IDO RESD, PARCINEW IDO RESD, PARCINEW (1) QO FENCED PASTURE UN QUALITY <u>MCRP/CD COT</u> (Check 1) CPOCL WIDTH - RIFFLE W. ( POCL WIDTH - RIFFLE W. ( POCL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE ( CODOL WIDTH -	OOD PLAIN SUALTY           EWERAND L A (WERAN COUNCROPIO) OD-SHUB O           MC ROPIO (D-SHUB O           MED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (1)         OD-CONSERV           PED (2)         PED (2)		
TRVEF Agrit Locking Downaid           BURARIAN WEDTH           L         R (Per Benki           DD: WIDE-RAM [4]           DD: WIDE [10]           COMMENTS:           PODUGLIDE AND REFFLER           MAX DEPTH [Check 1]           D- 40.7 m [4]           D- 60.8 EALLY > 10 cm [MAR]           D- 60.8 EALLY > 10 cm [MAR]           D- 60.8 EALLY > 10 cm [MAR]           D- 60.8 EALLY > 5 cm [8]	ант" <u>ERCSION FRUNDCE</u> - EL L R (Main Proceeding ECOPEN PASTURE) IDO RESD, PARCINEW IDO RESD, PARCINEW IDO RESD, PARCINEW (1) QO FENCED PASTURE UN QUALITY <u>MCRP/CD COT</u> (Check 1) CPOCL WIDTH - RIFFLE W. ( POCL WIDTH - RIFFLE W. ( POCL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE ( CODOL WIDTH -	COD PLAIN QUALITY           Per Bank)         L         A (Per Bank)           ()         COLURBAN C           CMC ROP(0)         CO SHUB O           PRED (4)         OD-CONSER           (1)         COLURBAN C           POD/ABL         COLURBAN C           (1)         COLURBAN C           POD/ABL         COLUBAN C           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           COLUBA		
TRIVER AGYL Lacking Downaid           BURARIAN WYDTH           L R (Per Benall           D D: WDDE-RATE 10-00 (           D D: THE 10-00 (           D D: WDDE-RATE 10-00 (           D D: WDDE-RATE 10-00 (           D D: WDDE-RATE 10-00 (           D D: WDDE-RATE 10-00 (           D D: WDDE-RATE 10-00 (           D D: WDDE-RATE 10-00 (           D : GENERALLY > 10 (           D : GENERALLY 5-10 (           D : GENERALLY 5-10 (	ант" <u>ERCSION FRUNDCE</u> - EL L R (Main Proceeding ECOPEN PASTURE) IDO RESD, PARCINEW IDO RESD, PARCINEW IDO RESD, PARCINEW (1) QO FENCED PASTURE UN QUALITY <u>MCRP/CD COT</u> (Check 1) CPOCL WIDTH - RIFFLE W. ( POCL WIDTH - RIFFLE W. ( POCL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE W. ( RIFFLE CODOL WIDTH - RIFFLE ( CODOL WIDTH -	COD PLAIN QUALITY           Per Bank)         L         A (Per Bank)           ()         COLURBAN C           CMC ROP(0)         CO SHUB O           PRED (4)         OD-CONSER           (1)         COLURBAN C           POD/ABL         COLURBAN C           (1)         COLURBAN C           POD/ABL         COLUBAN C           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           COLUBA		BOSION NE OR LITTLE D) OZRATE (2) AVV DR SEVERE(1) POOL: 5 POOL:
TRVAR Agit Locking Downsid           BURARIAN WEDTH           L R (Per Benall           DD-WIDE-RATE 10-00 (           COMMENTS:           PODUCELOE AND REFELER           MAX_DEPTH_ICNEX (1)           D-ATM(4)           D-ATM(4)           D-AD-10 (1)           D-AD-00 (1)           COMMENTS:           PRETERNIC           D-AD-00 (1)           D-AD-00 (1)           D-AD-00 (2)           D-QENERALLY > 10 (2)           D-QENERALLY > 10 (2)           D-QENERALLY > 50 (2)	EACTONY FUNDES - ELI     EACTONY FUNDES - ELI     EACTONY FUNDES - ELI     CONTREST - ENTREMINE     DO OPEN PASTURE     DO OPEN PASTURE     DO OPEN PASTURE     UN GUALITY     MOZPAC PASTURE     MOZPAC - ELI     OOCL WOTH - RIFFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     CONTREST - SEFLE W.     EIEFLE:     CONTREST - SEFLE W.     CONTREST - SEFLE	COD PLAIN QUALITY           Per Bank)         L         A (Per Bank)           ()         COLURBAN C           COMC ROP(0)         COS SHUB O           PRED (4)         OD-CONSER           (1)         COLURBAN C           POD/ABL         COLURBAN C           (1)         COLURBAN C           POD/ABL         COLUBAN A           COLUBAN A         COLUBAN A           COLUBAN A         COLUBAN A           COLUBAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           QUARSAN A         COLUBAN A           Q		
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Procedure No.	<u>WOPA-SWS-1</u>	Date Issued	<u>9-30-69</u>	Ber
Revision No.	£	Date Effective	9-30-69	

Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (CH(EI)).

	its Descriptio	n Sheet - Fic	an ∾ oa	QHE # <i>6//3/1</i> 7	SCORE:	<b>3</b> 56
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QA Manual (6th Update) – Fish – September 30, 1989					
Procedure No.	WCPA-SWS-3	Date Issued	<u>9-30-89</u>		
Revision No.		Date Effective	5- <u>30-89</u>		

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fiss sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

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*Řevar Regin Looking Ov <u>AllPA, Regin Looking Ov</u> <u>AllPA, Red All WOTT</u> U. R. (Par Bank) C.CWDE-Son (4) O. 3MCDERATE 14 D. CWIGEN AND ROF MORENTS: <u>PROJUGUIOU AND ROF</u> <u>PROJUGUIOU AND ROF</u> <u>MAX. DEFT:</u> [CINAL, 5 D-5 Jan [4] D_0.7Im [4]	натанал" <u>E 1935</u> L R (1) 9055 15017 (1) 15077 (	CHARGENOIT - A GEO M Mash Predominant Per B JREST, SWAMP [3] PEN PASTURE/ ROWCH ESTO, PARKINEW FIELD SWCEO PASTURE [1] ( 1955HOL CONY Sheet 1] (TH & RIFPLE WOTH [2]	<u>(AIM CUALTY</u> (m) L & (Per Ban D CUABAN D CUABAN D COARDAN D COARNINGT Check . Coard (Check .	BANY ÉROSION           IN         BANY ÉROSION           DR NOUSTRIAL[0]         D'ONONE DR LITTLE [           DR OLD RELO(2)         JECONEDATE [2]           N. 72LAGE (1)         D'ONEAVY DR SEVERI           CONSTRUCTION [0]         POOL:           POOL:         POOL:           ART TRACADOR ADDED         POOL:           ART TRACADOR         D'EDOR: ENT VELOCITY           ART TRACADOR         D'EDOR: ENT VELOCITY	භ <u>ල</u> ැ -
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*Řevar Regin Lonving Ov <u>AllPA, MAN WUTT</u> L R (Per Bank) C:C:-WDE-Som (4) O 3 -MODERATE 14 D:D:-AARDOW 5 to YOZ VERY MARRON D:D:-ANNE[6] COMMENTS: PCOLICUIDE AND RUFF <u>MAR DECEMENTS</u> D-SIM [4] D-0.7-m [4] <b>X</b> L=2.7m [2]		CHARGENOIT - A GEO M Mash Predominant Per B JREST, SWAMP [3] PEN PASTURE/ ROWCH ESTO, PARKINEW FIELD SWCEO PASTURE [1] ( 1955HOL CONY Sheet 1] (TH & RIFPLE WOTH [2]	<u>(AIM CUALTY</u> (m) L & (Per Ban D CUABAN D CUABAN D COARDAN D COARNINGT Check . Coard (Check .	BANY ÉROSIÓN E) DRINCUSTRIAL(E) D. O-NONE OR UNTLE ( DRINCUSTRIAL(E) D. O-NONE OR UNTLE ( DRINCUSTRIAL(E) D. O-NEAVY DRISEVERI CONSTRUCTION (b) PODL: (NONTED: - UNAF-INT Y-:	භ <u>ල</u> ැ -
*Rever Regin Looking Co <u>Ripe, Shak Women</u> L R (Per Bank) CC*-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) D 5-Sim (4) D 60-Tim (4) D 60-Tim (4) D 60-Tim (4) D 60-Tim (4)		CHARGONOFT - P. CED D Mesh Predominant Par B SREST, SWALF D PEN PASTURE/ ROWGR ESTO, PARKINEW FIELD SWCED PASTURE (1) ( HERMOLC.) ( HERMOL	(AIM COLACTY (AIM COLACTY D CUMBAN D CUMBAN D CUMBAN () D COMPER- D CARNING (Cherta Ch	BANY ÉROSIÓN E) DRINCUSTRIAL(E) D. O-NONE OR UNTLE ( DRINCUSTRIAL(E) D. O-NONE OR UNTLE ( DRINCUSTRIAL(E) D. O-NEAVY DRISEVERI CONSTRUCTION (b) PODL: (NONTED: - UNAF-INT Y-:	භ <u>ල</u> ැ -
'Rwar Regin Looking Com Riles, Shaki Warritt L, R. (Par Sank)           C:C'-MOLESSON (4)           C:S'-MOLESSON (4)		CHARGONOFT - P. CED D Mesh Predominant Par B SREST, SWALF D PEN PASTURE/ ROWGR ESTO, PARKINEW FIELD SWCED PASTURE (1) ( HERMOLC.) ( HERMOL	<u>санк сили (Тт</u> расилали (В. (Рес Вал расилали секо) Со-силания ( со-сонзан о со-сонзан (Секол. со-сонзан (Секол. со-сонзан со-силания со-силания со-силания со-силания (Секол.)	BANY ÉROSIÓN E) DRINCUSTRIAL(E) D. O-NONE OR UNTLE ( DRINCUSTRIAL(E) D. O-NONE OR UNTLE ( DRINCUSTRIAL(E) D. O-NEAVY DRISEVERI CONSTRUCTION (b) PODL: (NONTED: - UNAF-INT Y-:	භ <u>ල</u> ැ -
*Rever Regin Looking Co <u>Ripe, Shak Women</u> L R (Per Bank) CC*-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) C 3-WDE-Son (4) D 5-Sim (4) D 60-Tim (4) D 60-Tim (4) D 60-Tim (4) D 60-Tim (4)		CHARGONOFT - P. CED D Mesh Predominant Par B SREST, SWALF D PEN PASTURE/ ROWGR ESTO, PARKINEW FIELD SWCED PASTURE (1) ( HERMOLC.) ( HERMOL	(AIM COLACTY (AIM COLACTY D CUMBAN D CUMBAN D CUMBAN () D COMPER- D CARNING (CARCA CTOMARCA C-TOMARCA		භ <u>ල</u> ැ -
*River Right Looking Or <u>Rips, MAX WUTT</u> L R (Per Bank) CC:-WDE-Son (4) O 3 -MODERATE 14 DC:-MAREDW 5 to MAREDW 5 to MAREDW 5 to MAREDW 5 to COMMENTS: PROJUCTION AND REF MAREDW 5 TO D-STIM[4] D-0.7.1m[4] D-0.7.1m[4] D-0.2m[Ptt]=0] ECOMMENTS:		CHARGONOFT - P. CEQ B Mest Predominant Par B SREST, SWALF [3] PEN PASTURE/ ROWGR ESTO, PARKINEW FIELD SYCEO PASTURE [1] PERMOLOCITY Check 1] TH + RIFFLE WOTH [2] TH + RIFFLE WOTH [3]	LAIN CUALTY           CAIN CUALTY           D CUMMAN           C CUMMAN           C CUMMAN           C CUMMAN           C CUMMAN           C CUMMAN           C CUMAN	BANY CROSION E) DR NOUSTRIAL(C) D. O-NONE OR UTTLE ( DR OLD RELO(2) <b>SECONDERATE</b> (2) N. TALLAGE(1) D. O-HEAVY DR SEVERI CONSTRUCTION (b) POOL: (NONTRUCTION (b) POOL: (NONTRUCTION (b) POOL: (NONTRUCTION (b) CONSTRUCTION (b) POOL: (NONTRUCTION (b) (C) NOTERMITTENT[2] RIFFLE:	භ <u>ල</u> ැ -
'Rwar Regin Looking Com Riles, Shaki Warritt L, R. (Par Sank)           C:C'-MOLESSON (4)           C:S'-MOLESSON (4)		CHARGENOIST - A GEO M Meil Predominant Per Is DREST, SWALF DJ PEN RASTURE FROMORI ESTO, PARKINEW FIELD INCEO PASTURE (1) T PREMO CATY Check 1] TH + RIFFLE WIDTH (2) TH + RIFFLE WIDTH (3) TH + RIFFLE WIDTH (1) TH + RIFFLE WIDTH (1) TH + RIFFLE WIDTH (1)	(AIM CUALTY (AIM CUALTY COMMAN DOUMAN DOUMAN DOUMAN DOUMAN DOUMAN COMMENT COMMENT OF ACCEMAT SLOW (4) ALSTRATE	BANY ÉGOSION           E)         DR REUSTRIAL[E]         D. O-NONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         JECONE DR LITTLE [           DR OLD RELO(2)         DR OLD RELO(2)           POOL :         JECONE DR LITTLE [           DR OLD RELO(2)         DR OLD RELO(2)           DR OLD RELO(2)         RIFFLE (RUN RELO(2)           DR OLD RELO RELO RELO RELO RELO RELO RELO RELO	භ <u>ල</u> ැ -
*Řevar Regis Lasting Co- <u>Rije A (Per Bank)</u> L         R. (Per Bank)           C:01-MIDELSON [4]         C           D:01-MIDELSON [4]         C           D:01-MIDELSON [4]         D           D:01-MIDELSON [2]         D           D:01-MIDELSON [2]         C	EPOS: L R 0 DOFC SO[2] COFC SO[2] COFC	CHARGENOIST - A GEO M Meil Predominant Per Is DREST, SWALF DJ PEN RASTURE FROMORI ESTO, PARKINEW FIELD INCEO PASTURE (1) T PREMO CATY Check 1] TH + RIFFLE WIDTH (2) TH + RIFFLE WIDTH (3) TH + RIFFLE WIDTH (1) TH + RIFFLE WIDTH (1) TH + RIFFLE WIDTH (1)	LAIN CUALTY           CAIN CUALTY           D CUMMAN           C CUMMAN           C CUMMAN           C CUMMAN           C CUMMAN           C CUMMAN           C CUMAN	BANY ÉROSION EF DR NOUSTRIALIEI D. O-NONE OR LITTLE I DR OLD RELOGI TO O-NONE OR LITTLE I DR OLD RELOGI TO O-NONE OR LITTLE I DR OLD RELOGI TO O-NONE REVERI CONSTRUCTION [6] POOL: (NONFE) 5 CURPLENT VILLOUILY ATTRIC Appen) ALL-1] D'EDOIESIN CONSTRUCTION [6] POOL: (NONFE) 5 CURPLENT VILLOUILY ATTRIC Appen) ALL-1] D'EDOIESIN (NONFE) 5 CURPLENT VILLOUILY ATTRIC Appen) ALL-1] D'EDOIESIN (NONFE) 5 CURPLENT VILLOUILY ATTRIC Appen) ALL-1] D'EDOIESIN (NONFE) 5 CURPLENT VILLOUILY (NONFE) 5 CURPLENT VIL	භ <u>ල</u> ැ -
*Řever Regin Lobing Ov           Niles, MAN WOTT           L         R. (Par Sank)           C.C.*MOLESSON (4)           O.S.*MOLESSON (4)           D.S.*MOLESSON (4)           D.S.*M	EPOS: EPOS: EPOS: EPOS: ESO[3] TERUN QUALITT ERU	ON PROVOTE - A GEQ P Most Prodominant Par B DREST, SWAMP [0] PEN PASTURE (ROWCH ESTO_PARKINGW FIELD INCED PASTURE (1] () () () () () () () () () ()	(АНК СИЛАСТУ (та) U. R. (Per Ban D. C. Markel D. C. Markel D. C. Markel (Сакта, С. Т. С. С. С. Т. С. С. Т. С. С. Т. С. С. Т. С. С. С. С. С. С. С. С. С. С. С. С. С.	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIALICI D'ONORE OR UTTLE I DRIOLD RELOCI TO ONORE OR UTTLE I DRIOLD RELOCI TO ONERATORIA DE SEVERI CONSTRUCTION (D)         D'ONERATORI DE SEVERI POODL:           POODL:         POODL:           INCOTES:         CURRENT VELOCITY           ARTINA APPO)         POODL:           POODL:         POODL:           INCOTES:         D'ADPO           CI-ANTERNITENT[-1]         D'ADPO           CI-ANTERNITENT[-2]         RIFFLE:           RIFFLE:         RIFFLE:           RIFFLE:         D'ADORERATERI           D'EXTENSIVE [-1]         D'ADORERATERI	् हो - हो -
*Rever Regin Looking Co <u>Rines, MAR WOTT</u> U. R. (Per Bank) C.C.: WOLLSSON (4) O.S.: MOLESSON (4) O.S.: MOLESSON (4) O.S.: MOLESSON (4) D.S.: MORENALINE PRODUCTION AND ROPE <u>MAR DESTINATION</u> D.S.: MOLESSON (4) D.S.:	EPOS: EPOS: EPOS: EPOS: EPOS: EFO:	CHARGONOFT - A GEO M Mask Predominant Per B JREST, SWALF [1] PEN PASTURE ROWCH ESTO, PARKINEW FIELD INCED PASTURE [1] ( 1955HOL CONY Sheet 1] (114 - REFLE WOTH [2] (114 - REFLE	САНК СОЛАСТУ (***) U. R. (Per Ban D. C. MAN D. C. MAN D. C. MAN (************************************	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIALICI D'ONORE OR UTTLE I DRIOLD RELOCI TO ONORE OR UTTLE I DRIOLD RELOCI TO ONERATORIA DE SEVERI CONSTRUCTION (D)         D'ONERATORI DE SEVERI POODL:           POODL:         POODL:           INCOTES:         CURRENT VELOCITY           ARTINA APPO)         POODL:           POODL:         POODL:           INCOTES:         D'ADPO           CI-ANTERNITENT[-1]         D'ADPO           CI-ANTERNITENT[-2]         RIFFLE:           RIFFLE:         RIFFLE:           RIFFLE:         D'ADORERATERI           D'EXTENSIVE [-1]         D'ADORERATERI	् हो - हो -
*River Regis Louing Co Rips, SAAL WUTT L R (Per Bank) CC - WDE-Son (4) C 3 - MODESON		CHARGONOFT - A GEO M Mask Predominant Per B JREST, SWALF [1] PEN PASTURE ROWCH ESTO, PARKINEW FIELD INCED PASTURE [1] ( 1955HOL CONY Sheet 1] (114 - REFLE WOTH [2] (114 - REFLE	(АНК СИЛАСТУ (та) U. R. (Per Ban D. C. Markel D. C. Markel D. C. Markel (Сакта, С. Т. С. С. С. Т. С. С. Т. С. С. Т. С. С. Т. С. С. С. С. С. С. С. С. С. С. С. С. С.	BANY ÉROSION E) DR NOUSTRIALIEI D. O-NONE OR LITTLE I DR OLD RELO(2) TENDADDERATE(2) N. TILLAGE(1) D. D-NEAVY DR SEVERI CONSTRUCTION [0] PODL: (NONTEL: CURRENT VELOCITY ATTRIC Appen) ALL-1) D-EDDIESNI CO-ENTERNITENT[2] PIDELE: RIFFLE: RIFFLE: RIFFLE: DEXTENSIVE [-1] D-MODERATE(0)	् हो - हो -
*Řever Regin Lobing Ov <u>HIPA, SAAL WUTT</u> L         R. (Par Bank)           C.C.: MODESSON (4)           O.S.: MODESSON (4)           O.S.: MODESSON (4)           O.S.: MODESSON (4)           O.S.: MODESSON (4)           O.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.S.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D.: MODESSON (4)           D: MODE		CHARGONOFT - A GEO M Mask Predominant Per B JREST, SWALF [1] PEN PASTURE ROWCH ESTO, PARKINEW FIELD INCED PASTURE [1] ( 1955HOL CONY Sheet 1] (114 - REFLE WOTH [2] (114 - REFLE	САНК СОЛАСТУ (***) U. R. (Per Ban D. C. MAN D. C. MAN D. C. MAN (************************************		् हो - हो -
*Řever Regis Lasting Co- <u>Rije A (Ber Bende</u> )           L         R. (Per Bende)           CO-WIDE-Son (4)         CO-WIDE-Son (4)		CHARGONOTE - R. CED D Most Prodominant Par B DREST, SWAMP [] PEN PASTURE (ROWCH ESTO, PARKINEW FIELD SWCED PASTURE (1) () () () () () () () () () (	(AIM OUACTY (ant) L & (Per Ban D OUMBAN D OUMBAN D OUMBAN (D OUMBAN (D OUMBAN (Chera, C-TOMPENT O'-ACOERAD O'-ACOERAD O'-ACOERAD (Chera, C-TOMPENT O'-ACOERAD (Chera, C-SLOW (L) (Stavel, Sandy (C) (Stavel, Sandy (C)	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIALICI D'ONORE OR UTTLE I DRIOLD RELOCI TO ONORE OR UTTLE I DRIOLD RELOCI TO ONERATORIA DE SEVERI CONSTRUCTION (D)         D'ONERATORI DE SEVERI POODL:           POODL:         POODL:           INCOTES:         CURRENT VELOCITY           ARTINA APPO)         POODL:           POODL:         POODL:           INCOTES:         D'ADPO           CI-ANTERNITENT[-1]         D'ADPO           CI-ANTERNITENT[-2]         RIFFLE:           RIFFLE:         RIFFLE:           RIFFLE:         D'ADORERATERI           D'EXTENSIVE [-1]         D'ADORERATERI	् हो - हो -
*Řevar Regin Lobing Co- <u>Rite A (Per Bank)</u> L         R. (Per Bank)           C::::::::::::::::::::::::::::::::::::		CHARGONOTE - R. CED D Most Prodominant Par B DREST, SWAMP [] PEN PASTURE (ROWCH ESTO, PARKINEW FIELD SWCED PASTURE (1) () () () () () () () () () (	(AIM OUACTY (ant) L & (Per Ban D OUMBAN D OUMBAN D OUMBAN (D OUMBAN (D OUMBAN (Chera, C-TOMPENT O'-ACOERAD O'-ACOERAD O'-ACOERAD (Chera, C-TOMPENT O'-ACOERAD (Chera, C-SLOW (L) (Stavel, Sandy (C) (Stavel, Sandy (C)	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIAL[C]         DONONE DRUTTLE [           DR OLD RELO(2)         SCONERATE/2]           MADDERATE/2]         SCONERTE/2]           MADDERATE/2]         DONEAVY DR SEVERI           CONSTRUCTION [0]         PODL:           PODL:         PODL:           PALE1]         D'EODIES11           D'EODIES11         D'EODIES11           D'EODIES11         D'EODIES11           C'ENTRASTITIAL[-1)         D'ADPO           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           D'EONDERATERI         D'ADDEATERI           D'ENTERSIVE [*1]         D'ADDERATERI           [1]         COM [N]         D'ADDEATERI           [2] NORTERSTERSIVE [*1]         D'ADDEATERI           [2] NORTERSTERSTERSTERSTERSTERSTERSTERSTERSTER	् हो - हो -
*Ř.var Regin Lobing Co <u>RIPA, SAAL WUTT</u> L         R. (Par Sank)           C.C.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.: GENERALLY > 10 en           D.: GENERALLY > 10 en           D.: GENERALLY > 10 en           C.GAMESRALLY > 5 en           COMMENTS	EPOS: EPOS: EPOS: EPOS: EPOS: ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[4]	CHARGONOTE - R. CED D Most Prodominant Par B DREST, SWAMP [] PEN PASTURE (ROWCH ESTO, PARKINEW FIELD SWCED PASTURE (1) () () () () () () () () () (	(AIM OUACTY (ant) L & (Per Ban D OUMBAN D OUMBAN D OUMBAN (D OUMBAN (D OUMBAN (Chera, C-TOMPENT O'-ACOERAD O'-ACOERAD O'-ACOERAD (Chera, C-TOMPENT O'-ACOERAD (Chera, C-SLOW (L) (Stavel, Sandy (C) (Stavel, Sandy (C)		জ হা - হা হা হা হা হা হা হা হা হা হা হা হা হা
*River Regis Looking Comparison           I. R. (Per Sent)           U. R. (Per Sent)           C	EPOS: EPOS: EPOS: EPOS: EPOS: ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[4]	CHARGONOTE - R. CEQUE Mast Prodominant Par B DREST, SWAMP [] PEN PASTURE (ROWCH ESTO, PARKINEW FIELD SWCED PASTURE (1) () () () () () () () () () (	САНК СОЛАСТУ (***) U. R. (Per Ban D. C. MAN D. C. MAN D. C. MAN (************************************	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIAL[C]         DONONE DRUTTLE [           DR OLD RELO(2)         SCONERATE/2]           MADDERATE/2]         SCONERTE/2]           MADDERATE/2]         DONEAVY DR SEVERI           CONSTRUCTION [0]         PODL:           PODL:         PODL:           PALE1]         D'EODIES11           D'EODIES11         D'EODIES11           D'EODIES11         D'EODIES11           C'ENTRASTITIAL[-1)         D'ADPO           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           D'EONDERATERI         D'ADDERATERI           D'EXTENSIVE [*1]         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI	् हो - हो -
*Ř.var Rojis Lisburg Co           ŘIPA, SALAV WUTT           L. R. (Par Bank)           C.C.: MOLES Son (4)           O.S.: MOLES Son (4)           O.S.: MOLES Son (4)           O.S.: MOLES Son (4)           O.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.S.: MOLES Son (4)           D.: MOLES Son (4)           D.: MOLES Son (4)           D.: GENERALLY SOLEDTH	EPOS: EPOS: EPOS: EPOS: EPOS: ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[4]	CHARGONOTE - R. CEQUE Mast Prodominant Par B DREST, SWAMP [] PEN PASTURE (ROWCH ESTO, PARKINEW FIELD SWCED PASTURE (1) () () () () () () () () () (	(AIM OUACTY (ant) L & (Per Ban D OUMBAN D OUMBAN D OUMBAN (D OUMBAN (D OUMBAN (Chera, C-TOMPENT O'-ACOERAD O'-ACOERAD O'-ACOERAD (Chera, C-TOMPENT O'-ACOERAD (Chera, C-SLOW (L) (Stavel, Sandy (C) (Stavel, Sandy (C)	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIAL[C]         DONONE DRUTTLE [           DR OLD RELO(2)         SCONERATE/2]           MADDERATE/2]         SCONERTE/2]           MADDERATE/2]         DONEAVY DR SEVERI           CONSTRUCTION [0]         PODL:           PODL:         PODL:           PALE1]         D'EODIES11           D'EODIES11         D'EODIES11           D'EODIES11         D'EODIES11           C'ENTRASTITIAL[-1)         D'ADPO           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           D'EONDERATERI         D'ADDERATERI           D'EXTENSIVE [*1]         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI	জ হা - হা হা হা হা হা হা হা হা হা হা হা হা হা
*River Regin Looking Complexity And Harding C	EPOS: EPOS: EPOS: EPOS: EPOS: ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[3] ESO[4]	CHARGONOTE - R. CEDE D Mest Prodominant Par B DREST, SWAAF D] PEN PASTURE (ROWCH ESTOLPARKINEW FIELD INCED PASTURE (1) INCED PASTURE (1) INCED PASTURE (1) INTH - RIFFLE WIDTH (2) INTH - R	(AIM OUACTY (ant) L & (Per Ban D OUMAN D OUMAN D OUMAN (D OUMAN (D OUMAN (Chera, C-TOMPENT O'-ACCENT) O'-ACCENT O'-ACCENT O'-ACCENT (Chera, C-TOMPENT O'-ACCENT (Chera, C-TOMPENT O'-ACCENT (Chera, C-TOMPENT (Chera, C-TOMPENT (Chera, C-TOMPENT (Chera, C-TOMPENT (Chera, (Che	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIAL[C]         DONONE DRUTTLE [           DR OLD RELO(2)         SCONERATE/2]           MADDERATE/2]         SCONERTE/2]           MADDERATE/2]         DONEAVY DR SEVERI           CONSTRUCTION [0]         PODL:           PODL:         PODL:           PALE1]         D'EODIES11           D'EODIES11         D'EODIES11           D'EODIES11         D'EODIES11           C'ENTRASTITIAL[-1)         D'ADPO           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           D'EONDERATERI         D'ADDERATERI           D'EXTENSIVE [*1]         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI	জ হা - হা হা হা হা হা হা হা হা হা হা হা হা হা
*Ř.var Regin Lobing Co <u>RIPA, SAAL WUTT</u> L         R. (Par Sank)           C.C.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           O.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.S.: MODESSON (*)           D.: GENERALLY > 10 en           D.: GENERALLY > 10 en           D.: GENERALLY > 10 en           C.GAMESRALLY > 5 en           COMMENTS	EP32: L R 0 D P0 EV32: EV3	CHARGONOTE - R. CEQUE Mast Prodominant Par B DREST, SWAMP [] PEN PASTURE (ROWCH ESTO, PARKINEW FIELD SWCED PASTURE (1) () () () () () () () () () (	(AIM OUACTY (ant) L & (Per Ban D OUMAN D OUMAN D OUMAN (D OUMAN (D OUMAN (Chera, C-TOMPENT O'-ACCENT) O'-ACCENT O'-ACCENT O'-ACCENT (Chera, C-TOMPENT O'-ACCENT (Chera, C-TOMPENT O'-ACCENT (Chera, C-TOMPENT (Chera, C-TOMPENT (Chera, C-TOMPENT (Chera, C-TOMPENT (Chera, (Che	BANY ÉROSIÓN           BIL         BANY ÉROSIÓN           BROUSTRIAL[C]         DONONE DRUTTLE [           DR OLD RELO(2)         SCONERATE/2]           MADDERATE/2]         SCONERTE/2]           MADDERATE/2]         DONEAVY DR SEVERI           CONSTRUCTION [0]         PODL:           PODL:         PODL:           PALE1]         D'EODIES11           D'EODIES11         D'EODIES11           D'EODIES11         D'EODIES11           C'ENTRASTITIAL[-1)         D'ADPO           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           RIFFLE/RUN EVAFOREDENESS         RIFFLE:           D'EONDERATERI         D'ADDERATERI           D'EXTENSIVE [*1]         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI           D'EONDERATERI         D'ADDERATERI	জ হা - হা হা হা হা হা হা হা হা হা হা হা হা হা

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Procedure No.	WOPA-SWS-3	Date Essued	<u>9-30-69</u>
Revision No		Date Effective	6- <u>10-69</u>

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Figure V-4+5. Front side of the Ohio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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1) SALESTRATS (Creek CHL 7 THE SUBJECTS TYPE BOXES: Check of open present): TYPE POCL AUPLE POCL AUPLE SUBSTRATE SUBSTRATE SCORE:	~
DOLADUDER [8] OSCAND [8] X DUMESTORE [1]D RIMAA (9] D SLT HEAVY [CONCERNTE [-1]	
DOCCOSALE (5 COBEDROCKS XTALS [5] XHAADPAN [0] C. SET HORMAL [0] C. SELT FREE [1]	
COHARDRAN KI X 0.0000000000000000000000000000000000	
TOTAL NOADER OF SUBSTRATE TYPES: 04 4 [2] 0-44 [2] 0-004 FINES [2] D-NONE (]	
NOTE. (grane studge that originated from come environs; cases to brand on Adduted subschedus)	
COMMEATS	
	-
2] INSTREAM COYER AMOUNTIC make CART Dire in	
TYPE (Church dd That Apply) there 2 and AVERADE)	•
COVERDIANCING VEGETATION(1) COOTWADS (1) CALOUNTIC MICROMOTES (1) O MODERATE 25-75% (7)	
Second constant and the second constant and the second sec	
COMMENTS	-
XX.LOW (Z, 'XTALA (A) XALAECOVERING (A) OLIVIELO OLIVIELO DI PODRI (1) DI RECENT ORINO DI DIREDCINO DI BANK SHAPING	
RECOVERY DI DI CALLO DI DI CALLO DI DI CALLO DI CALLONIONE	
4) RUPARIAN ZONE AND GANK EROSION -(church ONE hospit bank or shock 3 and AVERAGE per bank) RIPARIAN:	- 15
Rever Rota Looking Devenue am'	1.2
REAGING WOTH FROSICINGER P. COD P. AIN CLASSEY BANK SROSICA	
R (Per Bank) LR (Most Precipipant Per Bank) LR (Per Bank)	
CO-VOESSON (4) CO-SOREST, SWAMP (3) CO-VOEST, SWAMP (3)	
O TIMOSEANTE 1050 [] JOSÉ DESN PASTURE, ROMCHOMO, O DISHMUR OR OLD FIELDLY, JE SHOODERATE [2]	
OO-NARROW S-10m [2] OO-RESC, PARK NEW RELD [1] OO-CONSERV, TRUASE (1) D'O-NEAVY OR SEVERE(1)	
ACTIVITY NARROW 1.5m [1] OC-FENCED PASTURE [1] OCHUNING CONSTRUCTION [0]	
60-NONE 17	
POOLS POOL: 6	-
Disat(6) (Chert ≠ 1) (Chert ≠ 2)	
20,7-tm (4)	
D- 24-0.7m [2] X-POOL WIDTH - AIPPLE WIDTH [1] D-FAST[1] D'-INTERSTITIAL[-1] D-NOPOCL(0)	
2_n(*∞i- ĵi <b>) (%</b> L <b>(**</b> i)	
COMMENTS:	
FIFFLE: O	-
C - CENERALLY >10 c - MAX-53 [*], D-STARLE (* 0. Cobbie Bouker) [2] O-EXTENSIVE [-1] O-MODERATE[0]	
D- GENERALLY > 10 CMARK253 [2] D-MOD. STARE (1.9. P== GHN+) [1] D-NONE[2]	
D-GENERALLY S-10 pm (1) D-UNISTARLE (Gravel Sand (0)	
0-GENERALLY 5-10 cm [1] 0-UNSTARLE (GameLSand; [0]	
D-GENERALLY S-10 pm (1) D-UNISTARLE (Gravel Sand (0)	

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Precedure No. <u> 2009 A-SWS-3</u> Date (ssued) 9-30-89 Revision No. Date Effective 9-30-99 UNI B/r. Figure V-4-5. Front side of the Ohio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Qualdative Habdat Evaluation Index (OHEI). Ohio EPA Silo Description Shoet - Fish QHEI SCORE: Soun Un Damed trib 0au <u>6/12</u> Lamon I 1] SUBSTRATE (Creek ONLYT to Substrate TYPE BOXES; Check all types are SUBSTRATE QUALTY SUBSTRATE SCORE: 1000 ROCL RIFFLE FOOL RIFFLE TYPE DOBRAVE (7) CICHELOER /S. ABS/100 ... Substate Origin (Check all) Υ. Silt Cover (Check One) DIDUESTONE 11 - AUMAR PO OSILT HEAVY (-2) SET MODERATE (-1) do swo (4 CONCLOSER (M) D O COBELE M OD REDROCUTI O SANDSTONE IN D D-HAROFAN [4] DO DETRUMP: Extern Of Embeddine is (Church One) QCONNECK [2] \_\_\_\_\_ COMPANY.C. [2] \_\_\_\_\_ COMPANLE [71] TOTAL MUNICER OF SUBSTRATE TYPES: Co. 4 [2] Sec. as 4 [2] Coccoul Fanges [2] NOTE: (Ignore statige the organization from port-to-acting score is based on network substration) O-ETTENSIVE(-2) - CCENATE(-1) D-LOW[0] D-MONE(1) COVER SCORE: 2 Z) INSTRÉAN COYER AMOUNT Cherese ONE Y Com IVPE (Check de Thet Apply) sheets 2 and AVERAGES D-UNDERCUT BANKS [1] Q DEEP FOOLS [2] 0-0000W\$(1) O - EXTENSIVE - 75% (11) D -OVERHANGING VEGETATION [1] O AQUATIC MACACIPANTES [1] O - MODERATE 25-75K [7] D ROOTWARS [1] D SHALLOWS IN SLOW WATER [[] C-ROULDERS [1] B-LOGS OR WOODY DEBRIS (1) D- SPARSE 6-25% DI . NEARLY ABSENT 4 15(1] ... COMMENTS: T] CHANNEL MCRPHOLOGY; (Check ONLY One PER Category Of check 2 and #VERADE) CHANNEL IN SIMUCETY DEVELOPMENT CHANNELIZATION STABLITY MONIFICATIONS/OTHER D - HIGH (4) C EXCELLENT [7] C NONE(1) D HIGH (D) D- MPOUND. O - SHAGENKI O - RECOVERED (\*) S- MODERATE (2) O - RECOCATION C MODERATE D C COCO D G - ISLANDS 9- F116 (1) B. RECOVERING [3] D. LOW [1] D. RECENT OR NO bí low [7] D - CANOFY REMOVAL D - LEVEED Poertijij D HONE[1] D - DREDGING D - BANK SHAPING RECOVERY III **D-ONE SIDE CHANNEL MODIFICATIONS** COMMENTS: 4] RIPARIAN 20HE AMEL BANK EROSION + (check ONE bas per bork or closels 2 and AVERAGE per bank) RIPARIAN: Q "Inver Ront Looking Downstream" RIPERIAN WIDTH EROSON/RUNOFF - FLOOD FLAIN COALITY BANK FROSION t, R (Per Bank) L.R. (Most Predominant Per Bank) L.R. (Per Bank) DD'-W05-50m [4] DEFOREST, SWALP DJ DOWNSAN OR NOUSTRIALINE OF OWNER OR LITTLE DI TOPEN PASTIANE HOWCROPHI DOSHIELE OR OLD RELOCI TO DE MODERATE (1) DO RESO PARKNEW RELD (1) DOCOMSERV, TILLAGE (1) DO CHEAVY OR SEVERE(1) DID MOCERATE 19 SO PJ DO'-NARROW S-10m [2]

OA Manual (6th Update) - Fish - September 30, 1999

PLE-VERY NARNOW I-Sm [1] CID-FENCED PASTURE [1] **COMINING CONSTRUCTION M** DO NONEO COMMENTS. PCOLIDIDE AND REFLEMEN QUALITY POOL: MAX, DEPTH (Check 1) MOOTHO: OTY POOLECTREES CORRECT VELOCITY ⊙ ⇒1m (5) Charter 11 (Check Af That Apply] D 07-1m[4] CT-POOL WIGTH & RIFFLE WIDTH [2] ст томелициј D'EDOES! D-POOL WIDTH - RIFFLE WIDTH [1] D-04-07m(2) C NO POOLO] C'-FAST[1] S-NTERSTITUL[-1] β- ≥ 0.4m[1] D==0.2π/Pool = 0] 01-100ERATE (1) LT-INTERNATIONITY 25 or stow [1] COMMENTS RIFFLE: Bittlemin peatu RIGHT FORM SAMATE RIFELSALIN ENGONEDHESS C - GENERALLY > 10 cm,MAX-50 [4] D-STABLE (e.g.,Gobble, Boulder) [2] D-EXTENSIVE +1: D-400ERATE(0) O - GENERALLY - 10 COLMAX 450 [0] O-NOO, STABLE (4.4. Per Gravel) [1] O-LOW, [1] D-NONEIZ D-GENERALLY S-10 cm [2] D-UNSTABLE (Gravel, Sand) KK HE HO RIFFLE(D) GENERALLY + 5 cm [Allie - C] COMMENTS. GRADIENT: 4) Gradient (leelimile) \_\_\_\_\_ 8.000L- 100 SHIFFLE: KRUN: 4

EA 4520

QA Manual (5th Lipdate) - Fish - September 30, 1969 WOPI-SWS-3 Date Issued 9-30-69 Processive No. Date Effective 9-30-89 Revision No. Ê.

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Figure V-4-5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

Chie EPA Sile Description Sheet - Fish OHEI SCORE: 45
STREET STRE
LANDON 510 1
TOTAL MANEER OF SUBSTRATE TYPES: D. 1 [2] - + PY D.COM. FINES (-2) D-LOWID C-NDNE(1)
(KTTE: (bytove skolge shall prigonalize from power-sources; spore in instant an makeral substance)
COVER SCORE: 16
2] POSTREAM COVER
TYPE (Cherck 48 That Apply) stores 2 and 4/ER4(3)
0-UNDERGUT BANKS [7] 0-DEEN FOOLS [7] 0-COBONS [1] 0-EXTENSIVE > 73% (11)
G OVERWARING VEGETATION [1] SCHOOTWARS [1] D.AGUATIC MACRONINTES H] D. MODERATI 25-TSN [7]
SHALLOWS (IN SLOW WATER)(1) O BOLLDERS (1) CLOSS OR WOODY DEBOS (1) SPARSE FISH, D)
U. NEARLY ABSENT - 5%(1)
T) CHANNEL MCR PHOLOGY; (Check ONLY One PER Category OR check 2 and AVERAGE) CHANNEL: [17]
SIMUDSITY OFVELOPMENT CHANNELIZATION STARLITY MCDERVATIONS/COMPLEX
0. HIGH (4) D - EXCELLENT (7) O - MONE (6) D - MARCING O - EXPOLIND.
O . NODERATE (2) O . COOD 12 D . RECOVERED HT THE MODERATE (2) O . RECOVERED HT THE MODERATE (2) O . RECOVERED HT
W. LOW (1) S. FAR (1) S. RECOVERING () D. LOW (1) O. CONORY REMOVAL D. LEVEED
D. MORE (1) D. ROCENT OF NO D. DREDGING D. BANK SHAPING
RECOVERT [1] D-ONE SOLE CHANNEL MODIFICATIONS
4] RIPARIAN ZONE AND BANK EROSION -(check DNE lost per bank of check 3 and AVERAGE per bank) RIPARIAN:
4] RIPARIAN ZONE AND BARK EROSION -(check DNE loss per bank or check 3 and AVERACE per bank) RIPARIAN:
AI RIPARIAN ZONE AND BANK ENOSION -Icheck DNE box per bank or check 3 and AVERACE per bank] RIPARIAN:
Aj RIPARIAN ZONE AND BARK EROSION - (check DNE best per bank or check 3 and AVERACE per bank)       RIPARIAN:       RIPARI
AJ RIPARIAN ZONE AND BARK (ROSION - (check DNE best per bank or check 3 and AVERAGE per bank)     RIPARIAN:       "River Rept Louing Countersan"     REDSECHARUNOFF - RECEDER AND (LALITY)     RANK ERCEIDER       1 R (Per Bank)     L R (Most Productioner Per Bank)     L R (Per Bank)     DO-URBAN OR INDUSTRIAL)       1 R (Per Bank)     L R (Most Productioner Per Bank)     L R (Per Bank)     DO-URBAN OR INDUSTRIAL)
AJ RIPARIAN ZONE AND BARK EROSION - (check DNE best per bank or check 3 and AVERACE per bank)       RIPARIAN:         "River Rept Looking Communication"       REDSIGNARUNOFE - RECOLOR IN AN CUALITY       RANK EROSION         1 R (Per Bank)       L R (Maxi Predominant Per Bank)       L R (Alam Bank)       D-NONE OR LITTLE [3]         0 C-WRDESSOn [4]       THEFOREST, SWALLE [3]       CO-URDAN OR INDUSTRIAL(3)       D-NONE OR LITTLE [3]         0 C-WRDESSOn [4]       D-OPEN PASTUREY ROWCROP()       D-SHRUB OR 0.0 RECOLOR       Sector Communication
A) RIPARIAN ZORE AND BANK EROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:         River Rept Lobbing Commentant       FROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:         River Rept Lobbing Commentant       FROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:       IIII         And Antimeter Rept Lobbing Commentant       FROSIONELINE:       ROOD PE ANN CHAITY       RANK EROSION         1 R (Per Benk)       L R (Most Predominant Per Bank)       L R (Are Bank)       D O-NONE OR LITTLE [7]         0 D'-WIDES Sone [4]       D D-OFFRANZON COMMENT PART REPT (CHEST, SWALLE)       D D-OFFRANZON COMMENT PART REPT (CHEST, SWALL)       D D-NONE OR LITTLE [7]         0 D'-WARADOW S LON [2]       D D-OFFRANZON COMMENT PART REPT (CHEST, SWALL)       D D-STRILLE OR OLD STRUE OR OLD STRULID)       D D-NONE OR LITTLE [7]         0 D'-WARADOW S LON [2]       D D-OFFRANZON COMMENT PART REPT (CHEST, SWALL)       D D-NEAVY OR SEVERE(1)       D D-NEAVY OR SEVERE(1)
A) RIPARIAN ZORE AND BARK EROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:         River Rept Lobbing Commension"       ROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:         River Rept Lobbing Commension"       FROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:       IIII         1 R (Per Benk)       L R (Most Predom/ment Per Benk)       L R (Are Benk)       L R (Most Predom/ment Per Benk)       L R (Are Benk)         0 D'-WIDES Son [4]       D-OFRE NOT Adv/CROPO DD-SHELD OR OLD STRULID       D D-NONE OR LITTLE [7]         0 D'-WARACME Sign [5]       D D-OFRE NOT Adv/CROPO DD-SHELD OR OLD STRULID       D D-NONE OR LITTLE [7]         0 D'-WARACME Sign [6]       D D-OFRE NOT Adv/CROPO DD-SHELD OR OLD STRULID       D D-NEAVY OR SEVERE(1)         0 D'-WARACME Sign [7]       D D-RESOL SARK MEW FIELD [1]       D D-CONSERV. TILLAGE [1]
A) RIPARIAN ZORE AND BANK EROSION - (check DNE best per bank or check D and AVERACE per bank)       RIPARIAN:         River Root Lobbing Commentant       FROSCHWEINOFF - R.OCD PLAN (LALITY)       RANK EROSION         Area give with the second
A) RIPARIAN ZONE AND BANK ENOSION - (check DNE best per bank of check 3 and AVERACE per bank)       RIPARIAN:         River Root Lobbing Commentant       FROSCHWEINOFE - R.COD PLAN CHAITY       RANK EROSION         Andragian with the second s
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QA.	Manus (6th Update) - Fi	sh - September 35, 1985		WDI
Procedure No. Revision No.	<u>WCPA-SWS-3</u> 5	Date Effective	<u>9-30-99</u> 9-30-99	8/12/99

Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Hapitat Evaluation Index (QHEI)

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QA	Manual (6in Lipdale) –	Fish - Sepremoer 30, 1989	
Procedure No.	<u>wCPA_SWS_</u> ]	Date Issued	<u>9-30-89</u>
Revision No	6	Date Effective	<u>9-30-89</u>

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B⊂3 \$/!!/ ₹3 Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical

characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

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AT REPARTAN ZONE AND BANK	SROSION - joines ONE see per ha		RIPARIAN: 1
'Âmer Right Looking Downsteen prosi®jany w <u>KCTH</u>	FROSICH/RUNDEF - P. DOD PLAT	н рузгите В	
'Âmer Right Looking Downsteen <u>proailigen witter</u> L. R. (Per Bank)	FRESIEWRUNDEF - P. DOD PLAI L. R. (Meel Predominant Pre Gani	N (SLALITY B) k) L B (Perfent)	ANK FROSIDM
"Âmer Right Laaking Downstream <u>p: 6a Bjang WCTH</u> L. R. (Per Bank) C. D. WIDEsSam (4)	FROSIDAVRINOFF - P. DOD PLAJ L. R. (Mosi Predominant Pri Ban DD FDREST, SWAMP DJ	N QUALITY B k) L Ř (Perténni) DO-URBAN DA INDUSTRIALIO D	
<sup>1</sup> Řener Right Lacking Downstream <u>priod Bilany WCTH</u> L. R. (Per Bank) C. D.: WIDE/Som (4) C. D.: WCDE/Som (4) C. D.: WCDE/Som (4)	EBOSION/RUNOFF - R DOD PLAI L R (Mosi Fredominani Pr Ani DD FOREST, SWAMP [3] BEOPEN PASTURE/ ROWCROP		ANK FROSION D-NOME OF LITTLE [2]
*Amer Right Looking Devroateen <u>er de Bijen WCTH</u> L. R. (Per Bank) C. D.: WDE Sam (4) C. D.: WCE SAFE 10-50 (5) C. O.: NARROW 5-30m (2)	EBOSION/BURGEE - ELDOO PLAI L.R. (Mosi Predominani Pri Gari DO FOREST, SWAMP DJ GEOPEN PASTUAE: ROWCROP DO RESD, PARK, NEW FIELD (1)	N QUALITY B K) L R (Per Ben)   TO-URBAN OR INDUSTRINUO   10 Q-D-SHOUS OR OLD PELD(2)   OD-CONSERV. TKLAGE  1   O	
*Amer Right Looking Devroteeum <u>prios Bijany WCTH</u> L. R. (Per Bank) C. D.: WIDEsdam (4) C. D.: WCESEALTE 10-50 (5) C. O.: NARROW 5-36m (2) <b>20</b> (-NARROW 5-36m (2) <b>20</b> (-NARROW 5-36m (2))	EBOSION/RUNOFF - R DOD PLAI L R (Mosi Fredominani Pr Ani DD FOREST, SWAMP [3] BEOPEN PASTURE/ ROWCROP		ANK FROSION D-NOME OF LITTLE [2]
*Amer Right Looking Devroateen <u>er de Bijen WCTH</u> L. R. (Per Bank) C. D.: WDE Sam (4) C. D.: WCE SAFE 10-50 (5) C. O.: NARROW 5-30m (2)	EBOSION/BURGEE - ELDOO PLAI L.R. (Mosi Predominani Pri Gari DO FOREST, SWAMP DJ GEOPEN PASTUAE: ROWCROP DO RESD, PARK, NEW FIELD (1)	N QUALITY B K) L R (Per Ben)   TO-URBAN OR INDUSTRINUO   10 Q-D-SHOUS OR OLD PELD(2)   OD-CONSERV. TKLAGE  1   O	ANK FROSION D-NOME OF LITTLE [2]
*Amer Right Looking Devroteeum <u>prios Bijany WCTH</u> L. R. (Per Bank) C. D.: WIDEsdam (4) C. D.: WCESEALTE 10-50 (5) C. O.: NARROW 5-36m (2) <b>20</b> (-NARROW 5-36m (2) <b>20</b> (-NARROW 5-36m (2))	EBOSION/BURGEE - ELDOO PLAI L.R. (Mosi Predominani Pri Gari DO FOREST, SWAMP DJ GEOPEN PASTUAE: ROWCROP DO RESD, PARKNEW FIELD (1)	N QUALITY B K) L R (Per Ben)   TO-URBAN OR INDUSTRINUO   10 Q-D-SHOUS OR OLD PELD(2)   OD-CONSERV. TKLAGE  1   O	ANK FROSIDA D-NOME OR LITTLE (0) MALICORATEIZ D-HEAVY OR SEVEREIN;
*Amer Right Looking Devroaream <u>price Biony WCTH</u> L. R. (Per Bank) C. D. WCDEsSon (4) C. D. WCDEsSon (4) C. D. WCDESATE 10-50 (5) C. O. HARROW 5-36m (2) C. O. HARROW 5-36m (2) C. O. HARROW 5-36m (2) C. O. HARROW 5-36m (2)	EBDSICH/PRIMOFF - PLOOP (14) L.R. (Most Predominant Prr Bank DD-FOREST, SWAMP [3] DD-FOREST, SWAMP [3] DD-RESD_PARK,NEW FIELD (4) DD-RESD_PARK,NEW FIELD (4) ID D-FENCED PASTURE (1)	N QUALITY B K) L R (Per Ben)   TO-URBAN OR INDUSTRINUO   10 Q-D-SHOUS OR OLD PELD(2)   OD-CONSERV. TKLAGE  1   O	ANK FROSION DANNE OR LITTLE (2) MINUGO22ATE;2]
*Amer Right Looking Devination <u>Prior Biology WCTM</u> L. R. (Par Biolog) C. D. WCDESSAM [4] C. D. WCDESSAM [4] C. D. WCDERATE 10-50 [5] C. O. NARROW 5-30n [2] <b>C. O. NARROW 5-30n [2]</b> C. O. NARROW 5-30n [2] C. O. MARROW 1-30n [1] C. D. MANROM C. D. MENTELLON	EBDSICH/PRIMOFF - PLOOP (14) L.R. (Most Predominant Prr Bank DD-FOREST, SWAMP [3] DD-FOREST, SWAMP [3] DD-RESD_PARK,NEW FIELD (4) DD-RESD_PARK,NEW FIELD (4) ID D-FENCED PASTURE (1)	N QUALITY B K) L R (Per Ben)   TO-URBAN OR INDUSTRINUO   10 Q-D-SHOUS OR OLD PELD(2)   OD-CONSERV. TKLAGE  1   O	ANE FROSIDA D-NOME OR LITTLE (2) D-NEAVY OR SEVERE(1); PDOL:
*Amer Right Looking Devrouseen <u>Price Blang WICTH</u> L. R. (Per Bank) C. D.: WICESAM [4] C. D.: WICESAM [4] C. D.: WICESAM [4] C. O.: NARROW 5-30m [2] <b>D.:</b> AVD REGULTS COMMENTS. FOOLOLIDE AND REFELTION	EBOSICA/BILINOISE - EL DOD PLAT L. R. (Mosi Predominani Pri Ani DO FOREST, SWAMP DI DO FOREST, SWAMP DI DO AESCO, PARK, NEW FIELD (1) DO AESCO, PARK, NEW FIELD (1) DO FENCED PARTURE (1)	N QUALITY B. K) L Ř (Per Ven) ( COURSAN DA INDUSTRIALIO( D) IDOURSAN DA INDUSTRIALIO (D) IDO-SAMUS CROUD PELD(2) (D) IDO-CONSERV. TKLAGE (1) (D) IDO-CONSERV. TKLAGE (1) (D)	ANE FROSIDA D-NOME OR LITTLE (2) D-NEAVY OR SEVERE(1); PDOL:
*Amer Right Looking Devroaream Price Burry WCTM L. R. (Per Bank) C. D. WCDEASAM[4] C. D. SCHOLDEAND REFELTION MASE SCHOLDEAND REFELTION (D. SCHOLDEAND RE	ESDSIGNARIANOSE - ELCOOPLAJ L. R. (Mesi Predominari Pri Sari DO FOREST, SWAMP [3] SELOPEN PASTURE/ ROWCROP DO RESID, PARKNEW FIELD (1) II DO-FENCED PASTURE (1) OUNLITT MORENCE ASTURE (1)	N QUALITY B K) L Ř (Per Ben) CO-URBAN DA INDUSTRIALIO D ID-URBAN DA INDUSTRIALIO D ID-CONSERV. TKLAGE (1) OC-CONSERV. TKL	ANY FROSIDA DINONE OR LITTLE (3) DINONE OR LITTLE (3) DINONE OR SEVERE(3) DINONE OR SEVERE(3) PDOL:
*Amer Right Looking Devination Price Burry WCTM L. R. (Per Bunk) C. D. WCDE-SAME(4) C. D. WCDE-SAME(4) C. D. WCDE-SAME(4) C. D. WCDE-SAME(4) C. D. WCDE-SAME(4) C. D. WCDE-SAME(4) C. D. SAME(5) C. D. SAME(5) D. S	EBDSIGN/RUNOFF - FLOOP PLAJ L R (Most Predominani Prr Ban DD FOREST, SWAMP [3] DD RESD, PASTURE/ ROWCROP DD RESD, PASTURE (1) DD RESCED PASTURE (1) DD LITT <u>MOSTAC OSCU</u> (CNICK 1) DOL WIDTH > RUFFLE WIDTH [2]	N. QUALITY         B.           K3         L. B. (Per 6wn)           CO-DUBAAN DA INDUSTRIALIO( D.           OD-CONSERN: TILLAGE (1)	ANK FROSIDA D-NONE OR LITTLE (3) D-HEAVY OR SEVEREIN; PDOL:
'Anner Rg/n Looking Devrouseen           Pride Binky WCT™           L R. (Per Bink)           C D: WCDESAM [4]           C D: MCDESAM [4]           C D: 4-0.7m [2]           C D: POLICESAM [4]	EBDSIGN/RUNOFF - FLOOD PLAI           L R. (Most Predominant Pre Ban           DD FOREST, SWAMP [3]           DDE FOREST, SWAMP [3]           DD-FOREST, SWAMP [3]	N. QUALITY         B.           K3         L. B. (Per 6wn)           CO-DUBAAN DA INDUSTRIALIO( D.           OD-CONSERN: TILLAGE (1)	
'Amer Rgm Looking Devrouseen           Pride Blank WIGTM           L. R. (Per Bink)           DD: WIDE-Som [4]           DD: WIDE-Som [6]           DD: WIDE-Som [7]           DD: AND REFELTION           MAR_DE-SCHT/ [Check 1]           D stim [6]           DD: ADDE-Som [7]           D: 400 4m [4]           D: 400 4m [4]	EBDSIGN/RUNOFF - FLOOP PLAJ L R (Most Predominani Prr Ban DD FOREST, SWAMP [3] DD RESD, PASTURE/ ROWCROP DD RESD, PASTURE (1) DD RESCED PASTURE (1) DD LITT <u>MOSTAC OSCU</u> (CNICK 1) DOL WIDTH > RUFFLE WIDTH [2]	N. OUALITY         B.           K) L. Ř. (Per Ben)           COURSAN DA INDUSTRIULIO  D           COURSAN DA INDUSTRIULIO  D         OO-CONSERV. TKLAGE [1]           OO-CONSERV. TKLAGE [1]         OO           OO-CONSERV. TKLAGE [1]         OO-CONSERV. TKLAGE [1]           OO-CONSERV. TKLAGE [1]         OO-CONSERV. TKLAGE [1]	
'Ameri Right Looking Devrouseent           Pride Burdy WCTW           L. R. (Per Burdy)           C. D.: WCDEsSam [4]           C. D.: WCDESSAME           D. S. D.: WCDESSAME           D. S. D.: WCDESSAME           D. S. D.: WCDESSAME           D. S. D.: WCDESSAME           D. S. D.: WCDESSAME           D. S. D.: WCDESSAME           D.: S. D.: WCDESSAME <td< td=""><td>EBDSIGN/RUNOFF - FLOOD PLAI           L R. (Most Predominant Pre Ban           DD FOREST, SWAMP [3]           DDE FOREST, SWAMP [3]           DD-FOREST, SWAMP [3]</td><td>N. QUALITY         B.           K) L. R. (Per Sen)           COURSAN OR INDUSTRIALION OF           COURSAN OR NOUSTRIALION OF         COURSERN TRUCKING (0)           OOCCONSERN TRUCKING (0)         COURSERN TRUCKING (0)           POLY AND CONSTRUCTION (0)         COURSERN TRUCKING (0)           POLY AND CONSTRUCTION (0)         COURSERN TRUCKING (0)           OUTORARY AND APPROV         COURSERN TRUCKING (0)           OUTORARY AND COURSENT         COURSERN TRUCKING (0)           OUTORARY AND COURSENT         COURSERN TRUCKING (0)           OUTORARY AND COURSENT         COURSERN TRUCKING (0)</td><td></td></td<>	EBDSIGN/RUNOFF - FLOOD PLAI           L R. (Most Predominant Pre Ban           DD FOREST, SWAMP [3]           DDE FOREST, SWAMP [3]           DD-FOREST, SWAMP [3]	N. QUALITY         B.           K) L. R. (Per Sen)           COURSAN OR INDUSTRIALION OF           COURSAN OR NOUSTRIALION OF         COURSERN TRUCKING (0)           OOCCONSERN TRUCKING (0)         COURSERN TRUCKING (0)           POLY AND CONSTRUCTION (0)         COURSERN TRUCKING (0)           POLY AND CONSTRUCTION (0)         COURSERN TRUCKING (0)           OUTORARY AND APPROV         COURSERN TRUCKING (0)           OUTORARY AND COURSENT         COURSERN TRUCKING (0)           OUTORARY AND COURSENT         COURSERN TRUCKING (0)           OUTORARY AND COURSENT         COURSERN TRUCKING (0)	
'Amer Rgm Looking Devrouseen           Pride Blank WIGTM           L. R. (Per Bink)           DD: WIDE-Som [4]           DD: WIDE-Som [6]           DD: WIDE-Som [7]           DD: AND REFELTION           MAR_DE-SCHT/ [Check 1]           D stim [6]           DD: ADDE-Som [7]           D: 400 4m [4]           D: 400 4m [4]	EBDSIGN/RUNOFF - FLOOD PLAI           L R. (Most Predominant Pre Ban           DD FOREST, SWAMP [3]           DDE FOREST, SWAMP [3]           DD-FOREST, SWAMP [3]	N. OUALITY         B.           K) L. Ř. (Per Ben)           COURSAN DA INDUSTRIULIO  D           COURSAN DA INDUSTRIULIO  D         OO-CONSERV. TKLAGE [1]           OO-CONSERV. TKLAGE [1]         OO           OO-CONSERV. TKLAGE [1]         OO-CONSERV. TKLAGE [1]           OO-CONSERV. TKLAGE [1]         OO-CONSERV. TKLAGE [1]	
'Amer Rgm Looking Devroween           Pride Bury WCT™           L R. (Per Bank)           C D: WCDESAM [4]           D atm [4]           D atm [4]           C = 0.2m [Pool = 0]           C = 0.2m [Pool = 0]           C = 0.2m [Pool = 0]	EBDSIGN/RUNOFF - FLOOD PLAJ L R (Mosi Predominani Prr Ban DD FOREST, SWAMP [3] DD AESTO, PARK, NEW FIELD (4) DD STO, P	N. QUALITY         B.           k) L. R. (Per Sen)         COURSAN DA INDUSTRIALIOI DI ODERANI DA INDUSTRIALIOI DI ODERANI DA INDUSTRIALIOI DI ODERANI DI	
'Amer Rgm Looking Devrouseen           Pride Space           Pride Space           L R. (Per Bank)           C D - WOESADM [4]           C D - WOESAME 10-50 [5]           C D - WOESAME 10-50 [7]           C D - WOESEME 10-50 [7]           C D - WOESEME 10-50 [7]           C D - WOESEME 10-50 [7]           C D - WOESEME 10-50 [7]           C D - WOESEME 10-50 [7]           C D - WOESEME 10-50 [7]           C D - WOESEME 10-50 [7]           D - Stm [5]           D - Stm [6]           D - Stm [7]	ESDSIGN/RUNOFF - P DOO PLA L R (Most Predominant Pr Ban DD POREST, SWAMP D) SCOPEN PASTURE/ ROWCROP DD RESD_PARKMEW FIELD (1) II DD-RENCED PASTURE (1) OUALITY <u>M295-42 (X2)</u> (Chick 1) COL WIDTH > RIFFLE WIDTH (2) DOL WIDTH - RIFFLE WIDTH (1) COL WIDTH - RIFFLE WIDTH (1) COL WIDTH - RIFFLE WIDTH (1) COL WIDTH - RIFFLE WIDTH (1)	NOULITY         B           K) L. B. (Per Gen)           DOUBAAN OR ROLESTRIALIO  D           DOUBAAN OR ROLESTRIALIO  D           IDOUBAAN OR ROLESTRIALIO  D           OD-CONSERV. TKLAGE                OD-CONSERV. TKLAGE                OD-CONSERV. TKLAGE                OD-CONSERV. TKLAGE                D-LONSERV. TKLAGE                D-CONSERV. TKLAGE                D-CONSERV. TKLAGE                D-LONSERV. TKLAGE                D'-TORRENTALIAN   D'-EDOIES              D'-FASTI            JE-ENCERTE              D'-ANTERNTI             D'-FASTI            JE-ENCERTE              D'-FILSTRUCT              D'-FILSTRUCT              STEATE	
'America Right Looking Devrouseent           Pride Bury WCTH           L. R. (Part Bunk)           C. D.: WCDEsSam [4]           C. D.: WCDESSAME [4]           C. D.: WCDESSAME [4]           C. D.: WCDESSAME [4]           C. D.: WCDESSAME [4]           C. D.: WCDESSAME [4]           C. D.: WCDESSAME [4]           C. D.: WCDESSAME [4]           D.: Statistic           C. D.: MCDESSAME [4]           D.: Statistic           D.: Statistic           D.: Statistic           D.: Statistic           D.: Statistic           D.: GENERALLY           D.: GENERALLY	ESDSIGNARIANOSE - ELCOOPLAJ L A (Most Predominani Pri Sari DD FOREST, SWAMP [3] SEOPEN PASTURE/ ROWCROP DD RESID, PARKNEW FIELD (4) II DD-FENCED PASTURE (1) DUALTT <u>MCRE-12-0577</u> (Creck 1) OCL WIDTH > RIFFLE WIDTH [2] DCL WOTH > RIFFLE WIDTH [1] CCL WOTH > RIFFLE [1] CCL	N. QUALITY         B.           K3         L. R. (Per Gen)         TOOURSAW OR NOUSTRIALIO(         DO           K3         L. R. (Per Gen)         TOOURSAW OR NOUSTRIALIO(         DO           K3         L. R. (Per Gen)         TOOURSAW OR NOUSTRIALIO(         DO           K3         L. R. (Per Gen)         TOOURSAW OR NOUSTRIALIO(         DO           K3         L. R. (Per Gen)         TOOURSAW OR NOUSTRIALION (0)         DO           K3         L. (Per Gen)         TOOURSAW OR NOUSTRIALION (0)         DO           K3         L. (Per Gen)         L. (PER ENT (0)         DO           K4         L. (Per Gen)         L. (PER ENT (0)         DO           K4         L. (Per Gen)         L. (PER ENT (0)         DO           K4         L. (PER ENT (1)         DO         DO         DO           K4         L. (PER ENT (1)         DO         DO         DO           K4         L. (PER ENT (2)         DO         DO         DO	
*Ármir Right Looking Demosreem           Prés Biany WCTM           L. R. (Par Bank)           C. D.: WCDEsSam (4)           C. D.: WCDESSAME (4)           C. D.: WCDESSAME (4)           C. D.: WCDESSAME (4)           C. D.: WCDESSAME (4)           C. D.: WCDESSAME (4)           C. D.: WCDESSAME (4)           C. D.: WCDESSAME (4)           D.: G. E. ERALLY = 10 ETAM (4)           D.: G. E. ERALLY = 10 ETAM (4)           D.: G. E. ERALLY = 10 ETAM (4)	ESDSIGNARIANOSE - ELCOO PLAJ L R (Mosi Fredominani Prr Ban DD FOREST, SWAMP [3] SEOPEN PASTURE/ ROWCROP DD RESD, PARK, NEW FIELD (4) II DD FENCED PASTURE (1) DD LITT MCSTADON (CNCK 1) DOL WIDTH > RIFFLE WDTH [2] DOL WIDTH > RIFFLE WDTH [1] DOL WIDTH > RIFFLE WDTH [1] CQL WIDTH > RIFFLE [1] CQ	N. QUALITY         B.           K) L. R. (Per Sen)         COLORAN CA ROLISTRIALIO COLORAN CA ROLISTRIALIO CONSTRUCTION (C)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN	
'Amer Rgin Looking Devrouseen           Pride Bury WCTM           L.R. (Per Bank)           C.D.: WIDESSam (4)           D.: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP:	EEDSIGN/RUNOFF - FLOOP PLAI           L R (Most Predominant Prt Park           DD FOREST, SWAMP [3]           DD FENCED PASTURE (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD WIDTH - REFELE WIDTH (1)           DD, WIDTH - REFELE W. [0]           PICELEFTUN STABLE (3,0)           DI D, MOD STABLE (3,0)           DI D, MOD STABLE (3,0)	N. QUALITY         B.           K) L. R. (Per Sen)         COLORAN CA ROLISTRIALIO COLORAN CA ROLISTRIALIO CONSTRUCTION (C)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN	
'Amer Right Looking Devicement           Price Banky           Price Banky           CD : WCDEsSam [4]           D : Stam [6]           CD : MCDESSam [4]           CD : MCDESSam [4]           D : Stam [6]           CD : MCDESSam [4]           D : Stam [6]           CD : MCDESSam [7]           CD : MCDESSam [7]           CD : MCDESSam [7]           CD : MCDESSam [7]           CD : CD [1]           CD : SERALLY : Storn, MAX:sis           C : GENERALLY : Storn [4]           CD : GENERALLY : Storn [4]	EEDSIGN/RUNOFF - FLOOP PLAI           L R (Most Predominant Prt Park           DD FOREST, SWAMP [3]           DD FENCED PASTURE (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD WIDTH - REFELE WIDTH (1)           DD, WIDTH - REFELE W. [0]           PICELEFTUN STABLE (3,0)           DI D, MOD STABLE (3,0)           DI D, MOD STABLE (3,0)	N. QUALITY         B.           K) L. R. (Per Sen)         COLORAN CA ROLISTRIALIO COLORAN CA ROLISTRIALIO CONSTRUCTION (C)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN	
'Amer Rgin Looking Devrouseen           Pride Bury WCTM           L.R. (Per Bank)           C.D.: WIDESSam (4)           D.: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP: (Check 3)           D: SCHTP:	EEDSIGN/RUNOFF - FLOOP PLAI           L R (Most Predominant Prt Park           DD FOREST, SWAMP [3]           DD FENCED PASTURE (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD AESD, PARK, NEW FIELD (1)           DD WIDTH - REFELE WIDTH (1)           DD, WIDTH - REFELE W. [0]           PICELEFTUN STABLE (3,0)           DI D, MOD STABLE (3,0)           DI D, MOD STABLE (3,0)	N. QUALITY         B.           K) L. R. (Per Sen)         COLORAN CA ROLISTRIALIO COLORAN CA ROLISTRIALIO CONSTRUCTION (C)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN, TILLAGE (1)           COLORASÉAN, TILLAGE (1)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN           POLA ANDRONATION (C)         COLORASÉAN           COLORASÉAN         COLORASÉAN	
'Amer Rgm Looking Devicement           Pride Biany WCTM           L.R. (Per Bank)           C.D.: WCDEADam [4]           D.: COLOLIDE AND RIPELENUM           MAR. [2:57]           D.: COLOLIDE AND RIPELENUM           MAR. [2:57]           D.: STIM [5]           D.: ALD: TW [4]           D.: ALD: TW [4]           D.: ALD: TW [4]           D.: COLOLIDE AND RIPELENUM           C.C.: STIM [5]           C.: CENERALLY [5]           D.: GENERALLY [5]           COMMENTS	EEDSIGNARIANOEF - ELCOO PLAJ L R (MORI Predominani Prr Bank DD FOREST, SWAMP [3] DD RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RESD, PARK, NEW FIELD (4) ID RES	N. QUALITY         B.           K) L. R. (Per Sen)         COURSAN DA ROUSTRIALIO DO CONSERV. TALAGE (1)         OOCONSERV. TALAGE (1) <td></td>	
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QA.	Manual (6th Update) - Fe	sh - Sepremoer 30, 1985		
Procedure No.	<u>₩Q₽a_Sw5_3</u>	Date Issund	<u>9-30-89</u>	3C 2
Revision No.	6	Date Effective	9-30-89	5/10/ 99

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Figure V-4-5 Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the

Qualitative Habitat Evaluation Index (CHEI).

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BECOVERYINI       D-OME SIDE CHANNEL BODIFICATIONS         MARENTS:       BECOVERYINI       D-OME SIDE CHANNEL BODIFICATIONS         MERANAN TOME AND \$AJAK [ROSION - (check CHE bos per bonk or shock 3 and AVEACE per bonk)       RIPARIAN:       Image: Channel and the bos per bonk or shock 3 and AVEACE per bonk)       RIPARIAN:         IIPARIAN WOTH       EPOSCOMPRINDER: (COOPER AND DIALTY       EAMY ÉSIDEDEN       RIPARIAN WOTH       EAMY ÉSIDEDEN         L & (Soul Productional Are Bank)       L & (Per Bink)       DD-OMERANAN DIALITY       EAMY ÉSIDEDEN       EAMY ÉSIDEDEN         DD-WIDESSON [4]       DD-POREST, SWAMP [3]       DD-UNEAN OR RUDUSTRULTION DIALITY       EAMY ESIDECY: A DIMICOLERATE CO.S.       ANAMON SIME [1]         DD-WIDESSON [4]       DD-POREST SWAMP [3]       DD-MINGTONSTRUCTION [3]       DD-MANDESTRUCTION [3]         DD-WIDESSON [4]       DD-POREST SWAMP [3]       DD-MINGTONSTRUCTION [3]       DD-MANDESTRUCTION [3]         DD-WIDESSON [4]       DD-PORESTRUCTION       DD-MINGTONSTRUCTION [3]       DD-MANDESTRUCTION [3]         DD-MINGTONSTRUCTION [3]       DD-PORESTRUCTION       DD-MINGTONSTRUCTION [3]       DD-MINGTONSTRUCTION [3]         DD-MINGTONSTRUCTION [3]       D-POOL WIDTH & RIFFLE WOTH [1]       D-MINGTONSTRUCTION [3]       D-MINGTONSTRUCTION [3]         DD-MINGTONSTRUCTION [3]       COOLENT REGISTRUCTION [3]       D-MINGTONSTRUCTION [3]       D-MINGTONS		
Dudgents:       Provide and Same (ROSION - (check difference of the same o	D - NONE [1]	
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BIDE FILEN WIDTH         ERCISION FLUNDEE - (2.000 FLUNC CLASTON         BANK SECSION           L R (Are Bank)         L R (Level Revolutions are Bank)         L R (Level Revolutions are Bank)         L R (Rev Bank)         D - KONESST, SWARF (B)         O D- URBAN OR RIDUSTRULID)         D - KONESST, SWARF (B)         O D- URBAN OR RIDUSTRULID)         D - KONESST, SWARF (B)         D - KONESST, SWARF (B)         O D- URBAN OR RIDUSTRULID)         D - KONESST, SWARF (B)         D - KONESST, SWARF (B)         D - KONESSTRUTT)         D - KONESSTRUT)         D - KONESSTRUTT)		
DD-WIDE-Som [4]       DD-FOREST, EWART [3]       DD-UREAM OR NUDSTRULL(1)       D C-WONE OR [1TTLE [7]         DD-WIDE-SATE 10-50[3]       BLSTOPEN PASTURE ROWCACAYO (DD-SHARE OR OLD FIELD);       BLOWCACAYO (DD-FENCED);       BLOWCACAYO (DD-FENCED);       BLOWCACAYO (DD-FENCED);         DD-WIDE-SATE 10-50[3]       BLSTOPEN PASTURE (1)       DD-WIDE-SATE (2);       DD-WIDE-SATE (2);       DD-WIDE-SATE (2);         DD-WIDE-SATE 10-50[3]       DD-RESOL PASTURE (1)       DD-WIDE-SATE (2);       DD-WIDE-SATE (2);       DD-WIDE-SATE (2);         DD-WIDE-SATE 10-50[6]       WIDE-FILE-TORY       POOL:       DD-WIDE-SATE (2);       POOL:         DD-WIDE-SATE (2);       WIDE-FILE-TORY       POOL:       POOL:       POOL:         DD-WIDE-SATE (2);       WIDE-FILE-TORY       POOL:       POOL:       POOL:         DD-WIDE-SATE (2);       WIDE-FILE-TORY       POOL:       POOL:       POOL:         DD-WIDE-SATE (2);       (DWE-FILE-WIDE-YIDEY)       POOL:       POOL:       POOL:         DD-WIDE-SATE (2);       (DWE-FILE-WIDE-YIDEY)       POOL:       POOL:       POOL:       POOL:         DD-WIDE-SATE (2);       (DWE-FILE-WIDE-YIDEY)       POOL:       td>RIPARIAN WIDTH</td> <td>EROSIONRUNDER - P. CO. PLANCELAST</td>	RIPARIAN WIDTH	EROSIONRUNDER - P. CO. PLANCELAST
DD-WIDE-Som [4]       DD-FOREST, EWANF [3]       DD-UREAK OR RUDSTRULL[1]       DD-WOLS ARE (0.001)         DD-WIDE-SATE 10-00[3]       BLSCOFEN PASTURE ROWCACADIO DD-SHAUS OR OLD RELD(2)       BLOWCACATE (3)       DD-WAUSCALE (3)         DD-WADESATE 10-00[3]       BLSCOFEN PASTURE (1)       DD-WAUSCALE (3)       DD-WAUSCALE (3)       DD-WAUSCALE (3)         DD-WADESATE 10-00[3]       BLSCOFEN PASTURE (1)       DD-WAUSCALE (3)       DD-WAUSCALE (3)       DD-WAUSCALE (3)         DD-WADESATE 10-00[3]       DD-WAUSCALE (3)       DD-WAUSCALE (3)       DD-WAUSCALE (3)       DD-WAUSCALE (3)         DD-WADESATE 10-00[6]       WASHTS       POOL:       POOL:       POOL:         DD-WADESATE 10-00[6]       (DWEATE 10)       POOL:       POOL:       POOL:         AUTOLSTATE 10:       POOL:       POOL:       POOL:       POOL:         DD-WADESATE 10:       (DWEATE 10)       POOL:       POOL:       POOL:         AUTOLSTATE 20:       POOL:       POOL:       POOL:       POOL:       POOL:         AUTOLSTATE 20:       POOL:       POO	L R (Per Bank)	L R (Regardingen Per Rank) L R (Per Renk)
DD-WIDLEAATE 10-30 [3] BEROPEN PASTURE: ROWCACAYO DD-SAND OR ON DREUD; A DIWCOLARTELY; DD-WARROW 1-5m [1] DD-FENCED PASTURE [1] DD-CONSERV. TRUGE[1] DD-WAVY OR SEVERE[1] DD-WONGED WIGHTS: DD-WONGED WIGHTS: DD-WIDTER RIFELERUN OVALITY X DISC. (Creat 1) DD-WIDTER RIFELERUN OVALITY X DISC. (Creat 1) CONST 1)	0 01 - WIDE-50m [4]	CO-FOREST, SWAMP (2) CO-URBAN OR INDUSTRIAL(3) C C-MONS OR LITTLE [3]
DD-AAARROW 516% [2]       DD-ABARONE FILD [1]       DD-CONSERV. TALAGE [1]       DD-AAAROW 516% [2]       DD-AAAROW 516% [2]       DD-AAAROW 516% [2]       DD-AAAROW 516% [2]       DD-AAAAROW 516% [2]       DD-AAAAROW 516% [2]       DD-AAAAROW 516% [2]       DD-AAAAROW 516% [2]       DD-AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		SO [3] BOODEN PASTURE ROWCACADI CO-SHANK OR OLD REED(2) A, UMAGAZAATE(2)
DOLANEST MARROW LOW LOW LOCKED PASTURE [1]     DOLANING TONSTRUCTION [5]       DOLANING TONSTRUCTION (5]     DOLANING TONSTRUCTION (5]       DOLANING TONSTRUCTION (5)     POOL:       P		
DS-NONE[6]       AMERTS:       POOL:         DUDUDE AND RIFFLEMUN OVALITY       VIENEY: DOY       ICNER ALT PLOY OF Y         DIMINE       (Check 1)       ICNER Y         DIMINE <td< td=""><td></td><td></td></td<>		
AUMENTS:     POOL:       DUDIDE AND RUFFLEMUN GUALITY     POOL:       X DECT.(CLASS):     POOL:       X DECT.	DO NONEICI	
Dublice AND REFELEMENT CONTY     POOL:     POOL:     POOL:       X DETENSION     MERTENSION     POOL:     POOL:     POOL:       X DETENSION     (Check 1)     POOL:     POOL:     POOL:       X DETENSION     (Check 1)     POOL:     POOL:     POOL:       X DETENSION     (Check 1)     (Check 1)     CHECK PPUP       X DATIN[4]     CHECK 1)     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10       X DATIN[4]     CHECK 10     CHECK 10     CHECK 10 <td></td> <td></td>		
X         DESCRIPTION (Constraint)         PERMITTION           x1m[6]         (Constraint)         (Constraint)         (Constraint)           x1m[6]         (Constraint)         (Constraint)         (Constraint)           x1m[6]         (Constraint)         (Constraint)         (Constraint)           x1m[6]         (Constraint)         (Constraint)         (Constraint)         (Constraint)           x1m[6]         (Constraint)         (Constraint)         (Constraint)         (Constraint)         (Constraint)           x2-3/m(2)         (Constraint)         (Constraint)         (Constraint)         (Constraint)         (Constraint)         (Constraint)           x2-3/m(2)         (Constraint)         (Constraint)         (Constraint)         (Constraint)         (Constraint)         (Constraint)           x2-3/m(2)         (Constraint)		Emun Guality POOL: 6
Aim [6]         (Check 1)         (Check 1) <th)< td=""><td></td><td></td></th)<>		
D:/imi[c]       D:-POOL WIDTH > RIFFLE WIDTH [2]       DTORRENTCAL[-1]       D:-ROEDIESS!         D:-A.J.Yn, 2)       D:-POOL WIDTH > RIFFLE WIDTH [1]       D:-RAST[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-POOL WIDTH > RIFFLE WIDTH [2]       D:-ADDERNTCL[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-POOL WIDTH > RIFFLE W. (0)       D:-ADDERNTCL[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-POOL WIDTH > RIFFLE W. (0)       D:-ADDERNTCL[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-POOL WIDTH > RIFFLE W. (0)       D:-ADDERNTCL[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-POOL WIDTH > RIFFLE W. (0)       D:-ADDERNTCL[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-POOL WIDTH > RIFFLE W. (0)       D:-FAST[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-FAST[1]       D:-FAST[1]       D:-FAST[1]       D:-INTERSTITUAL[-1]       D:-INTERSTITUAL[-1]         c.d.m(1)       D:-FAST[1]       D:-FAST[2]       D:-FAST[2]       D:-FAST[2]       D:-FAST[2]         c.d.m(2)       D:-FAST[2]       D:-FAST[2]       D:-FAST[2]       D:-FAST[2]       D:-FAST[2]       D:-FAST[2]		
AL-3,7m, (2)     C-POCL WIDTH - RIFFLE WOTX (1)     D-FAST(1)     D-INTERSTITUL[-1]     D-NOPDOL(0)       a.d.m.(1)     D-POCL WIDTH - RIFFLE W. (N)     D'ADDERATE (1)     D'INTERSTITUL[-1]     D-NOPDOL(0)       a.d.m.(1)     D-POCL WIDTH - RIFFLE W. (N)     D'ADDERATE (1)     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]       a.d.m.(1)     D'ADDERATE (1)     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]       a.d.m.(1)     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]       a.d.m.(1)     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]       BERERALLY NIDERLARS 10 [4]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]     D'INTERSTITUL[-1]       GENERALLY NI		
Colom (1)       O'-POOL WIDTH & RIFFLE W. (0)       O'-MOOFRATE (1)       D'-INTÉRANTTENT[-2]         -c0.2m [Pool + 0]       RIFFLE (2)       RIFFLE (2)         NNEXTS       RIFFLE (2)       RIFFLE (2)         CENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (MAX2 50 [4]       D.STABLE (49. Constr. Banker) (2)       O'EXTENSIVÉ (-1)         GENERALLY + 10 cm (R)(H4 = 0)       D'EXTENSIVÉ (-1)       G'EXTENSIVÉ (-1)         MAENTS       G'EXTENSIVÉ (-1)       G'EXTENSIVÉ (-1)		
0.3/m [Pool + 0]         70:5LOW [1]         RIFFLE:         RIFFLE:         Distribution          0.3/m [Pool + 0]         NIMENTS         RIFFLE:         Distribution         RIFFLE:         Distribution          0.3/m [Pool + 0]         Distribution         Distribution         RIFFLE:         Distribution         Distribution           GENERALLY + 10 cm/MA3430[2]         Distribution         Distribution </td <td></td> <td></td>		
NINENTS     RIFFLE:       RIFFLE:     RIFFLE:       RIFFLE:     RIFFLE:       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO[4]     DISTABLE (np., Comm., Bandon (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (np., Comm., Same) (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (np., Comm., Same) (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (np., Comm., Same) (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (np., Comm., Same) (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (np., Comm., Same) (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (2)       GENERALLY ND COMMANY SO (2)     DISTABLE (2)		
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PLEASING (CONTACT     BIEFLE (R) IN EUBSTRATE     BIFFLE (R) IN EUBSTRATE       GENERALLY > 10 cm (LAXS 50 [4]     D.STABLE (A.G., Contra, Boulder) (2)     DEXTENSIVE [-1]     D.CONCERATE(1)       GENERALLY > 10 cm (MASA 50 [2])     D.4x00. 5TABLE (A.G., Contra, Boulder) (2)     DEXTENSIVE [-1]     D.CONCERATE(2)       GENERALLY > 10 cm (MASA 50 [2])     D.4x00. 5TABLE (A.G., Contra, Boulder) (2)     DEXTENSIVE [-1]     D.CONCERATE(2)       GENERALLY > 10 cm (MASA 50 [2])     D.4x00. 5TABLE (A.G., For Garrier) (2)     D.LOW. [1]     D.NCNE[2]       GENERALLY > 10 cm (R:He = 0)     D.CONSTABLE (STAVE, Same) (2)     D.CONSTABLE (STAVE, Same) (2)     D.CONSTABLE (STAVE, Same) (2)       GENERALLY > 4 Scm (R:He = 0)     D.CONSTABLE (STAVE, Same) (2)     D.CONSTABLE (STAVE, Same) (2)     D.CONSTABLE (STAVE, Same) (2)	244467413	RIFFLE: D
GENERALLY #10 cm LLAX2 50 [4] D. STABLE (4 9. Coosts. Bandon) (2) O EXTENSIVE [-1] O-MODERATERS GENERALLY #10 cm MASH 50 [7] O-MODE STABLE (4 9. Fan Garne) [4] O-LOW. [1] O-MODERATERS GENERALLY # 5 cm [R:14 = 0] MENTS	COLORNAL PLOTS	
GENERALLY + 10 cm MARK 50 [7]         O4/00. 5TABLE (ng., Par Game) [1]         O4/00. 5TABLE (ng., Par Game) [1]         O4/00. 5TABLE (ng., Par Game) [1]           GENERALLY + 10 cm (Nile = 0)         O4/00. 5TABLE (Sizen, Same) [0]         O4/00. 5TABLE (Sizen, Same) [0]         O4/00. 5TABLE (Sizen, Same) [0]           GENERALLY + 5 cm (R/life = 0)         O4/00. 5TABLE (Sizen, Same) [0]         O4/00. 5TABLE (Sizen, Same) [0]         O4/00. 5TABLE (Sizen, Same) [0]		
GENERALLY & Statem [1] D-CANSTARLE (GRAVE, SARA) [6] GRADIENT:		
GHADIENTSGHADIENT:		
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radiant (leeUmile): 7 33 SPOL: /// SUPPLE: SRUN:	· · · ·	
	Gradient (leeUmile)	- 7 3 SRUN: SRUN:

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EP4 4570

AD تحقی ا	Manual (61n Update) – P	ist. – September 30, 1989		Re 1
Procedure No.	<u>WOPA-5W5-1</u>	Date Issued	<u>9-30-89</u>	8/9/99
"Procedure No.	f	Date Effective	9-3 <u>0-89</u>	

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

	ONL PTwo Suba	NUM TYPE BOXES; Ch	out of lypes present	La .	1/228	
	NOOL AFRLE	POOL RIFFI	LE <u>SV 511</u>	ATE QUALITY SUE	STRATE SCORE	ि वि ।
00-4.058 /91.489(10)				nace an <u>sin c</u>	over 102 ect Onel	· · · · ·
CC-SCULDER(V) CC-COSELE(V)			97115(1) OH	на страница и сърдания Страница и сърдания	NOAMAT NO D- 211	LATE [-1]
O O HAROPAN (4)			SANDSTONE (C	Erter	t Of Embeddiness (Co	
			D SHALE  -1]		TENSIVE   200 + CO	
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ÇƏMMENTS	<u> </u>	<u> </u>			: COVER SCORE:	ចោ
ZI DISTREAM COVER					OUNTICHER ONLY OF	
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O-UNDERCUT BANKS	(1)	ACOLEP POOLS [7]			EXTENSIVE - 75% [11	
D OVERHANDING VEC		ACCTWAGE [1]	D ACLATIC 44	CROPHOTES (1) D -	MODERATE 25-75%	र्ग 👘
SESTIAL DWS (IN SLO	W WATER [1]	O BOALDERS [1]		COA DEPUT	SPARSE 3-25% PR	
*			·	., D.	NEARLY ABSENT 4 IN	6(4)
COMMENTS:						
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DEMODERATE DI			"IS MODERATE IT		O-BLANDS	
	3 - F.4.P. [3]	O - AECOVERING D		D - CANOPY RENOT O - DRUDOWG	D · CANK SHAPIN	-
	2 - POOR [1]	Q - RECENT OR NO RECOVERY [1]			HANNEL MODIFICATK	-
COMMENTS:		NECONERT [1]		·····································		
"Rover Right Labering Down <u>RIPLANAN WOTTH</u> L. R. (Per Benk) D. D. WIDELSON [4] D. D. WIDELSON [4]	NEW-AM ERCISY 1 A (AL XORTO KO[D] 00-02	INTRUNCET - FLOOD P Ion Predominant Par B REAT, SWAMP [2] EN PASTURE ROWCR	LAIN CRUALITY LAR) L R (Per Bani CODURIAN ( CP(0) CO-SHRUB C	a oro netantial c Manangarantia	MANY EROSSON I CANONE OR LITTLE ANIMICOERATE(2)	<u>ب</u>
L R (Per Benk) D 2'-WIDE-SON [4] D 2'-MODE-SON [4] D 2'-MODE-SON F 10- MIDE-YERY MARROW D'O'-NONS[0]	NET CAN <u>FRCIEX</u> 1 A (A) <b>XC</b> (F) (C)-CP (C) (C) (C) (C) (C) (C) (C) (C)	INFUNCTE - FLOOD P MA Predominant Par B REAT, SWAMP (3) EN PASTURE/ ROYCE (SID_PARKNEW FIELD	LAIN GRAALTY MAR) L. R. (Per Bani GO-URBAN & OP(5) C-O-SHRUB O (1) CO-CONSERI	a oro netantial c Manangarantia		ел Г
*Rever Reim Labsing Down <u>RIPARIAN WODTH</u> L.R. (Per Bank) D.D.*ANDELSON [4] D.D.*ANDELSON [4] D.D.*ANDELSON [4] D.D.*ANDELSON [4] D.D.*ANDELSON [4] COMMENTS	FRCIEX 1. A. (A) yelletto yelletto (2) 00-04 (2) 00-66 -5m (1) 00-66	INFELINDET - EL COD P Ioni Predominant for O REAT, SWAMP (1) EN PASTURE/ ROWCR (SID_PARK,NEW FIELD NCED PASTURE (1)	LAIN GRAALTY MAR) L. R. (Per Bani GO-URBAN & OP(5) C-O-SHRUB O (1) CO-CONSERI	k) 24 PHOLISTRAALIDI () 19 OLO FIELD(2) () 24 TULAGE (1) ()	MAK ERGSKA I GINONE ORLITTLE KARMCOZRATELI I DIHEAVY OR SEVEL	<u>е</u>
*Rever Refer Labeling Down <u>RIPLAIAN WIDTH</u> L. R. (Per Benk) D. D. WIDELSON [4] D. LALIDE AND REFEL	Effective Effective	INFELINDET - EL COD P Bost Predeminant Par & REST, SWAMP [3] EN PASTURE ROWCR (SID_PAAK, NEW FIELD NCED PASTURE [1]	LAIN CRAFTY COUREAN ( COPID CONREAN ( COPID CONSERN CONSERN COMMINICO	k) 24 PHOLISTRAALIDI () 19 OLO FIELD(2) () 24 TULAGE (1) ()	HINK ERGSKIN CONONLORITTLE KARIMCOZRATELA DI HEAVY OR SEVER	<u>е</u>
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*Row Ro t Lobing Down <u>RIPARIAN WOTH</u> L R (Per Benk) D 3* WODE-Son [4] D 3* WODE-Son [4] D 3* ANDE-Son [4] D 3* ANDE-Son [4] CO-INCHS[0] CO-	Encless 1. A. (a) 30 (b) 0.0-04 (c) 0.0-04 (c) 0.0-04 (c) 0.0-04 Encless 0.0-04 (c)	ANELINGET - EL COD P Mon Predominant Par & REAT, SWAMP (1) EN PASTURE/ ROWCR (SID_PARK, NEW FIELD NCED PASTURE (1) MCED PASTURE (1) MCED IOG / M. Rich Netal I) MARRA E WIDTH (2)	LAIN COULTRY GOLUREUM ( ODUREUM	E) PA HOUSTRALIDI - D R OLD FIELD(2; JR - TOLAGE (1) D - DANSTRUCTION [0] - DANST	ANK ERGSKN CONONE OR LITTLE KUTHCOZRATEZT DOHEAVY OR SEVER POOL: LYELOGITY	(13) (14) (14) (14) (14) (14) (14) (14) (14
*Row Rot Lobing Down <u>RIGARIAN WORL</u> L R (Per Bank) D C +MODE-Son [4] D C +MODE-Son [4] D C +MODE-Son [4] C -NOARROW E LOB- MOLVERY NARROW C -NOARD COMMENTS POOLSULTIE AND REFL VAC DOPTH (Clack 1) D > 1m(6) D > 1m(6) C - 4 - 6,7m [2]	таточит" <u>FRCIEV</u> 1. Я. (2) 30 (5) (2) (2) 50 (5) (2) 50 (5) (2) 50 (5) (2) 50 (5) (2) (2) (2) (2) (2) (2) (2) (2	ANELINGET - EL COD P Mon Predominant Par & REAT, SWAMP (1) EN PASTURE/ ROWCR (SID_PARK, NEW FIELD NCED PASTURE (1) NCED PASTURE (1)	(AIN ODALITY ODUREAN ( ODUREAN ( OP(0) OD-SHRUB O (*) OD-SHRUB O (*) OD-SHRUB O (*) OD-SHRUB O (*) OD-SHRUB O (*) OD-SHRUB O OT-SAST(*)	E) PA HOUSTRALIDI - D R OLD FIELD(2) JR V. TULAGE (1) D DNSTRUCTION (0) <u>NYMETCE CURRENT</u> <u>WITCH Apphy</u> ALI-31 D-EDDIEST O'-INTERST	ANK ERGSKN CONONE OR LITTLE KIEMCOZRATELI OHEANY OR SEVER POOL: (VELOSITY (1) (1) (1) (1) (1) (1) (1) (1)	(13) HE(1)
"Row Ro t Losing Down <u>RIPARIAN WIDTH</u> L R (Per Benk) D D'-WIDE-Son [4] D D'-WIDE-Son [4] D D'-MOREANN F 10m (20-NONE[0] COMMENTS POOLNOLIDE AND RUFH VAZ. DE FTH (Check 1) C-2+F(6] D = 0.44(7m [2] D = 0.45(7m [2]) D = 0.46(7m [2])	таточит" <u>FRCIEV</u> 1. Я. (2) 30 (5) (2) (2) 50 (5) (2) 50 (5) (2) 50 (5) (2) 50 (5) (2) (2) (2) (2) (2) (2) (2) (2	ANELINGET - EL COD P Mon Predominant Par & REAT, SWAMP (1) EN PASTURE/ ROWCR (SID_PARK, NEW FIELD NCED PASTURE (1) MCED PASTURE (1) MCED IOG / M. Rich Neta I) MARRIE WIDTH (2)	LAIN CRAFTY GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL	E) PA HOUSTRALIDI - D R OLD FIELD(2) JR V. TULAGE (1) D DNSTRUCTION (0) <u>NYMETCE CURRENT</u> <u>WITCH Apphy</u> ALI-31 D-EDDIEST O'-INTERST	ANK ERGSKN CONONE OR LITTLE KIEMCOZRATELI OHEANY OR SEVER POOL: (VELOSITY (1) (1) (1) (1) (1) (1) (1) (1)	(13) HE(1)
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*Row Ro t Losing Down <u>RIPARIAN WIDTH</u> L R (Per Bent) D D*-WIDE-Son [4] D D*-MIDE-Son [4] D D*-MIDE-Son [4] D D*-NARROW F 10m MOLVERY NARROW D'O*-NONS[0] COMMENTS PROLICIDE AND REFL VAR. DE FTH (Check 1) D-sine(6) D 40.4m [1] D 40.4m [1]	таточит" <u>FRCIEV</u> 1. Я. (2) 30 (5) (2) (2) 50 (5) (2) 50 (5) (2) 50 (5) (2) 50 (5) (2) (2) (2) (2) (2) (2) (2) (2	ANELINGET - EL COD P Mon Predominant Par & REAT, SWAMP (1) EN PASTURE/ ROWCR (SID_PARK, NEW FIELD NCED PASTURE (1) NCED PASTURE (1)	LAIN CRAFTY GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL	E) PA HOUSTRALIDI - D R OLD FIELD(2) JR V. TULAGE (1) D DNSTRUCTION (0) <u>NYMETCE CURRENT</u> <u>WITCH Apphy</u> ALI-31 D-EDDIEST O'-INTERST	ANK ERGSKN CONONE OR LITTLE KIMINGOZRATELIT DHEANY OR SEVEN POOL: (VELOSITY (1) TTAL(-1) [O-NOP	(5) HE(1) 600(0)
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Power Right Labiting Down <u>RIPARIAN YOTH</u> I           I         R (Per Bank)         D.3' WIDELSON [4]           D.3' WIDELSON [4]         D.3' WIDELSON [4]           D'ALOSEN [4]         D.3' WIDELSON [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]         D'ALOSEN [4]           D'ALOSEN [4]	ERCIEX 1 A (A) 30 (5) 00-0P (2) 00-0P (2) 00-0P (3	ANELINGET - EL COD P MART MANAR [1] EN PASTURE ROWCH SID_PASTURE ROWCH (SID_PASTURE (1) MCED PASTURE [1] MCED PAST	(AIN COUNTY (AIN COUNTY COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTEAN ( COUNTY) (Count ( COUNTY) (Count ( COUNTY) (Count ( COUNT) (Count  (COUNT) (COUNT) (COUNT) (COUNT) (COUNT) (COUNT) (C	A HOUSTRULIO - C R OLD FIELD(2; JR , TOLAGE (1) C CONSTRUCTION (0) HUMMEN & COURSEN A The Apph) ALI-1; CT-EXDIES; CT-INTERS; (1; CT-WTERM BUED - SHUN F O-EXTENSIVE 1] O-LOW, [1]	ANK ERGSKN	(5) HE(1) 6

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Procedure No.	<u>wopa-sws-3</u>	Dale Issuec	<u>9-30-89</u>
Revision No.	6	Dale Ellective	9-30-89

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Operative Hapital Evaluation Index (OHE).

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CA Manuel (6th Update) - Fish - September 30, 1989					
Procedure No.	<u>WCPA-SWS-3</u>	Oats issued	<u>9-30-89</u>		
Revision No.		Data Effective	<u>5-30-89</u>		

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Opalitative Habitat Evaluation Index (OHE).

Spann Little P	n Description Sheet -	AwOa	이어티 SCORE: * <u> </u>	54 47
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	dra, V Two Sameran TYPE BOXES; ( COL REFRLE POCK AN	TLI <u>Strustruste</u>	AUALITY SUBSTRATES	CORE: TTOK 141
0080675459		<u>Substrate Origin</u> (Cheek	ell) <u>Sill Cover JCheck Or</u>	
		_OUMESTONE [TD-RIP/R	P[7] D 94 T HEAVY [-2] 1 SE	MODERATE (-1)
0.0-0088.0 [1]		JARLS[1] TAHAAC	PAN (0) D. SILT NOAMAL (0) C	- \$5.T PREE [1]
OKARDHAN [4]	<u>X _                                   </u>	C-SANCSTONE (of	Esteril C. Embedding	an (Chest One)
			O-64TENSIVE(-2)	L-MCOERATE(-1)
	STRATE TYPES: 10- 472 O- 4- 40			NONE[1]
	а софиланся інсин рака-саналева; всяча ій	Crewel on Asteral substration	.*	
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L S. (For Buck)	1 R (Moss Predominant Per		·	
	CO-FOREST, SWARP [2]		OUSTRIALIO D O-MONE OR	
C D - MCCERATE 105				
O O' -NARROW S-10m				EVENE(1)
h	1-Sm [1] DO-FENCED PASTURE [1]	CO MAING CONS	האורדונכא (א)	
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<u>- Martin Contenti</u> (Contenti 1)	MCAPHOLOGY		FML CURASH" YELOCITY	
1m[6]	(CAr# 1)	(Check An Th		
C (17-1m [4]	POOL WIDTH - RIFFLE WIDTH			
C-0.4-3.7m [2]	O POOL WOTH - RIFFLE WOTH			ND POOLOJI
Er = 0, (m (1)	O-PCOL WIDTH & RIFFLE W. [0]	-HODERATE [d]	OF-INTERNATIENT[-2]	
D===+0.2m [Pool = 5]		Or-sucw [i]		
COMMENTS:				FLE: 2
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C-CENERALLY - 10 cm N		815 (v.g., Per, Gritve) (*)	DLOW, III ONONES	
S-GENERALLY S-10 cm		E (Gravel, Savd) (0)		
Q - GENERALLY & 5 cm [		e to-every amout foil	Ľ	
COMMENTS			GRADIE	NT: [4]
E-241-767418				
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LC 2 210179 GA Manual (6th Update) - Fish - September 30, 1989 Procedure No. WOPA-SW5-3 Date issued <u>9-30-99</u> 9-30-89 Revision No. Date Effective £

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Ouglitative Habitat Evaluation Index (OHE).

Onio EFA Silo Boschip Seus <u>Locus F. Cos</u> Lector / C2		à ≈;	QHEIS 	CORE: 40	•
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	uran yez, [7] 🗶 🛄 🏜	terrate Crisin (Cre		Check Onet	-
				[-Z] C SET MCDERATE (-1]	
		USIN OHA	OPAN KI Q - SILTNOR		
		ANDSTONE (O		Emberdáneze (Crect Ore)	
	Аятиясцој 5-5	MALEHO		SIVE: 274-MODERATE(-1)	
TOTA: MANBER OF SUBSTRATE TYPE	S.⊃. + (7) (7) (17) D-C	OAL PINES [ 2]	D-10%0		
NOTE (grade things the companies from	point-sources; soore is black	on one of the second	■I .'		
COMMENTS			<u></u>		
-				VER SCORE: [4]	•
2] INSTREAM COVER		,		Check CHLY Drater	
<u>TYPE</u> [Chesk A				IN AVERAGE	
O-UNDERCUT BANKS [1]	4 0625 KOOL3 [2]	EL-CXBCMS[1]		ENSIVE + 75% (11)	
POVERHANGING VEGETATION [1]	E-ACCTWACS [1]		ROPHYTES (1) G - MOD		
P-SHALLOWS ON SLOW WATERO ("		A -roots on woo	OY DEBRIS (1) D- SPA		
		-		RLY ABSENT & 5%(1)	
COMMENTS:					•
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D HIGH (4: O EXCELLENT)				O MPOUND.	
MODERATE [1] D GOOD (5)	D-ASCOVERED (4)			D- ISLANDS	
O LOW 21 FAR D	ALCOVERING AL		- CANOPY REMOVAL		
0 HONE[1] 0 FOOR[1]	G RECENT OR NO		DREXGING	CI-BANK SHAPING	
	RECOVERY [1]		D - ONE SIDE CHAN	NEL MODIFICATIONS	
COMMENTS:					
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	IREST, SWAMP []]	DOURBAN CA	NOUSTRIALIN O D-	NONE OR LITTLE [2]	
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O D - NARROW S- 16m [2] DO- R	ESID_PARK.NEW PELD(1)	OG-CONSERV	TLUCE JI D O	HEAVY DR SEVERE(1)	
BUT VERY NARROW 1-3m [1] DO-FE	ACED PASTURE [1]	DO MINING/CO	NSTRIX,TKIN (D)		
OC-NONEG					
COMMENTS					
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	ihesk I)		That Apply)		
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	TH - RIFFLE WOTH (1)	QT-FAST[1]			
	TK - RIFFLE W. [0]	CT-MODER47E	1] DIVENTERMOTTER	A 13-21	
D		e-stow [1]			
COMPANYS				RIFFLE: Th	
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D - GENERALLY >10 ctt, MAX-50 [4]	C-STABLE (e.g. C	obbie, Boulder) (2)	DEXTENSIVE (-1)	E MODERATE(C)	
D-GENERALLY -10 ct.MAX. 57 [3]	0-2-00. STABLE (	e.gPea Grave)[4]	OLOW.[1]		
O - GENERALLY 5-10 pm [1]	CUNSTAR E (Gr	mel Sacol (0)	•		
CENERALLY & S &- [R.Me - 6]	<i>c</i> .				
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_	cadura No. Ksion No.	<u>wopa_sws_3</u> £	Date Essued Date Elfective	<u>9-30-89</u> <u>5-30-89</u>	Rained 2 201 8/0/19

Figure V-4-5. From side of the Onio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Oualitative Habitat Evaluation logex (OHEI).

Ohio EPA Si Sana - Dena	le Beseniplien Sheel - Fish
	a CAL Y Two Substrate TYPE #OXES: Caust of Apres presently;
TYPE	PCC REFLE FOR RUFLE SUBSTRATE SUBSTRATE SCORE; [] ]
DID-SCOTT /S:ABS[10	
D D-CC88L5 (#)	
THE REAL PROPERTY IN	
ECHAICX [7]	
	UBSTRATE TYPES TA 4 [2] O- ++ + [2] OCOAL FARES [2] O-LOW[0] O-NONE 11
	has any name from part-sources; soon is based on essent substrates)
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ZI INSTRUME COVER	AMCUNT Charles ONLY One or
	TYPE (Check AUThat Apphy) cterch 2 and 4 VBALG3)
O -UNDERCUT BANK	(1) ICDEEP POOLS (2) Q -OCIDOWS (1) D - EXTENSIVE - 79% (11)
COVERNANCING VE	
SHALLOWS (N SU	CW WATERIN SCALDERS [1] SCADES CR WOODY DEBRIS [1] SPARSE \$25% [2]
R	O - MEARLY ABSENT & SYLT
COMMENTS:	
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C NCCERATE DI	
D - NON2 [1]	
	RECOVERY [1] D. DNE STOE CHANNEL MODIFICATIONS
COMMENTS:	
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Rver Rote Loosen Do	
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L A (Per Back)	L R (Most Predominant Per Benk) L R (Per Benk)
0 01-Wi05-50m (4)	DO FOREST, SWAMP [3] DOURDAN OR WOUSTRUCK); D D NOVE OR LITTLE [3]
D D'HICCSFATE 10	
D D WARROW 5-10	m [2] DO RESOLANAK NEW FIELD [1] DOCONSERV. TILLASE [1] O OHEAVY OR SEVERE[1]
STREETY NARROY	N 1-3m [1] COMMINICONSTRUCTION [0]
O CT NONEIGI	
COMMENTS:	
PCOLICIDE AND RUT	POOL: 10
Max Dealer (Chief)	
1 1 m [6]	
Q-0.7-1m[4]	
⊃ a.4-3.7m(#)	
D ∎0.4m[1]	
©c0.2m (Pool = 0)	<b>X</b> (SLOW))
COMMENTS	
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BITT FROM CEPTH	DESTIMATE BIFFLEMUN FAREDDEDNESS
D-GENERALLY STOCK	NAX2-50 [4] DISTABLE (N.B. Coddin, Boulder) [2] Or EXTENSIVE (1) DIMODERATE(0)
D-GENERALLY -19 cm	(1) D-NONE[2]
O - GENERALLY 5-10 c	
CENERAL Y & Set	
COMMENTS	GRADIENT: Q
re A	$= \frac{85}{8000} \text{ shiffle} \frac{4}{4} \text{ srun} \frac{11}{4}$
5) Grad-en1 (Feet/mile)	

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Revisión No.	<u>WOP4-SWS-3</u>	Date lásuec Date Effective	<u>9-30-89</u> 9- <u>30-89</u>

Figure V-4-5. Front side of the Ohio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of tish sampling locations. This is used to record information for the calculation of the Qualitative Habita: Evaluation Index (QHE)).

Chile 274 Sile Description Sheet - Fich OHEI SCORE: 43 Sman Press Cresk	
	- · ·
Location Contract Contract Tree Substrates TYPE BOXED; Contract AD types present;	
I SUSTRATE (CHECK ON FINS SOUTHING FIVE SCHECK) COME AND ADDRESS OF ADDRESS	
TTPL FOR, RIFRE FOR AFRE SUBSTRATE OUNTY SUBSTRATE SCORE	· 1141 · · ·
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	<del></del>
CONOLDER [9] V OGRAND IS V JUNESTICKE (1) PHILWAR [0] O STUT HEAVY (1) BUSH, T WODE	RATE[-1]
CO-COBBLE (R) V O BEEROCKIS HOLLS (1) CARDPAN (7) O SILT NORMAL (N) O ST.T.	≠ç≘ lı l
CO-MAROPAN [4] CO-DETRITINGS CO-DETRITING CO-DETRITICO CO	ek Grei
0 2-45/05 [2] 0 2-ARTPX=[0] 0 SHALE(-1) 0-EXTENSIVE[-2]	ERATEL 1
TOTAL NUMBER OF SUBSTRATE TYPES : - + 2   + 1   O-COAL FINES - 2 - C-LOW	
	1 I I
NOTE: (Ignore stadge mail deginates from port-structur; score 14 delets on rational accurated)	
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TI WETTELIN COVER AND AND TO THE OWLY ONLY ON	· · ·
TYPE (Check APThet Apply) sheek Z and AVERAGE)	
D-UNDERCUT BANAS [1] ··· D-DEEP FOOLS [2] D-CXBCWS [1] D-EXTENSIVE > 754 [11]	
TO ACUATIC MACRO VEGETATION [1] D. ROOTWADS [1] D. ACUATIC MACROPHYTES [1] D. NODERATE 23-73% [7]	г
SHALLOWS (IN SLOW WATERIN) COULDEAS (:) XELOGS OR WOODY DEBRS (T) SC SPARSE 5-25% (2)	
D - NEARLY ABSENT < SY	
	L*A
COMMENTS:	-
•	27 -
T CHANNEL MORPHOLOGY; (Church GNLT One PER Caregory OR shack 2 and A VERAGE) CHANNEL.	
SYALOSITY DEVELOPMENT CHANNEL TATION STABLEY MCCORCATIONS/DTHEN	
Q - MCH (4) D - EXCELLENT (7) Q - NONE (6) D - MCH (2) D - SNACOING D - MPOUND.	
34. LOW [2] O. FALR [3] 38. RECOVERING [3] D. LOW [1] D. CANDRY REMOVAL D. LEVEED	
D NOWE [1] JER POCH [1] D AECENT OR NO D D SEESING D BANK SHAPING	-
RECOVERY [1] D - ONS SIDE CHANNEL MODERCATIO	NS
COMMENTS:	
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C D'MARROW & LOW (2) CO RESO PARCINEW RELO [1] DOCONSERV. TLLAGE [1] DOMEAVY ON SEVER	<b>E</b> 1]
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D. C.7-Im (4)	57 JU
Q & 4 & 0.7m [2] D + POC, WICTX = REFLE WICTH [1] D + SAST[1] D + WIERSTITAL(4) O NO PO	odul]
C-POCL WIDTH & RIFFLEW, (d) O'HOCEANTE (L) O'HOCEANTE (L)	
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CONVENTS:	പ
	$1O1 + \cdots$
D - GENERALLY's 10 cm, MAXs 50 [4] D-STABLE (= g. Cobble, Boulon) (2) D-EXTENSIVE (-1) D-MCOERATE(4)	
D-GENERALLY SIC IM MALESS [5] D-MOD. STABLE (= 0. PN Grave) (*) OLOW. [1] (D-NDIYE[2]	
	FFL TIETI
C Q · GENERALLY v 5 cm (Ruth v 6)	[
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ej Gradient (Reel/mile): 4 xPcol. 1000 xRIFFLE: KRUN:	_ /
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Photo 24+ 25 Misquite Fish Schooling Near Blue 9	11 6633

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Figure V-4-5. Front side of the Otio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the

Quastative Habitat Evaluation Index (QHEI).



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<u>9-30-89</u> 9-30-89

Figure V-4-5. From side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Quartative Habitat Evaluation Index (QHER).

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WER ICO. SFR. POL NIME SUBSTRATESTALLY SUBSTRATE SCORE: 12
D THE CER /SLASSING CER GAVEL (7) A Substate Order (Check 44) Stationer (Check One)
COMARCK (2)         COARTING(VEL/2)         Coskwal [-1]         C-EXTING(VEL/2)         COMERATE(-1)           YATH NUMBER OF SUBSTRATE TYPES: Cb.4 (2)         C-EXTING(VEL/2)         C-MONE(1)         C-MONE(1)
TOTAL NUMBER OF SUBSTRATE TYPES: Do 4 [2] (A-4-4 [0] O-COAL FINES (2]
CONVER SCORE: 3
2) SNSTABAN COVER AND IN THE COVER
TYPE (Check ##ThatApp) Ethels 2 and AYTAAGE)
D-UNDERCUT BANKS (1) ACCESP FOOLS [2] Q CREWNS [1] Q- DETENSIVE - 75% [11]
VENTVERMANCING VEGETATION [1] Q. ROOTWADS [1] Q. ADUATIC MACROPHYTES [1] D. MODEWATE 25-735 [7]
ACLARKALL DWS (IN SLOW WATER) (1) O BOULDERS (1) DELCOS OR WOODY DEBRIS (1) SPARSE 2-23- [7]
TI CHANNEL BOAPHOLOGY: (Chart ONLY One PER Chargery OR charts? and AVERAGE) CHANNEL:
JI CHANNEL BOILPHOCOUT: IF THE ONE I OF THE CHANNEL BOILPHONE IN THE PROPERTY OF
SINLIOSITY OFFICIAL ENT (7) OF NONE (9) OF HOND DISCHARGENCE OF MICHARD.
D. MCGENATE [3] D. GOOD (R O ALCOVERED (4) D. MODERATE (7) O. ALLOCATION O. KCANDS
O LOW (Z O FARE [7] ACCOVERING [7] (C LOW (1) O CANOFY HENOVAL D LIVEED
DE MARCENE DE BOOR (1) O RECENT OR NO O DREDGING D BANK SHARING
RECOVERY [1] OF SIDE CHANNEL HODIFICATIONS
COM/ENTS:
4) RIPARIAN ZONE AND BANK EROSION -Joneth ONE has per back of check 2 and AVERAGE per back) RIPARIAN:
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OA Marval (6th Update) - Fish - September 30, 1989 Procedure No. <u>WOP4-SWS-1</u> Date Issuec <u>9-30-89</u> Revusion No. <u>E</u> Date Effective <u>9-30-69</u>

Figure V-4-5. Front side of the Ohio EPA Sile Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Oualitative Habitat Evaluation Index (OHEI).

Chie EPA Site Description Sheet - Fish	R
1) SUBSTRATE (Crack Disk FTHE Substrate TYPE SOLET; Check of types present);	
THE FOOLMERS FOOLMERS FOOLMERS FOOLMERS FOOLMERS	177
DOBLDEN (LARTIN) OLGAAVEL [7] 🔨 👗 Saturbate Briefs (Reset all) Sin Cover (Sheet Over USER) /	1-1
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TOTAL MOUSER OF SUBSTRATE TYPES D. 4 [2] O- + 4 [0] O-CONL FINES [-2] - CON[2] O-KON[1]	
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TYPE (Chemic All Their Apply) Cruck 2 and A VERAGE)	
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Q OVERMANNING VEGETATION (*) AGROOTWADS (*) Q -AQUATIC HACROPHYTES (*) Q - MODERATE 38-73% (7)	
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4) RPARIAN ZONE AND BARK ERDSION - (sheak ONE has per berk or check 2 and AVERAGE per berk) RIPARIAN:	-
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Breat Right Leabing DownWinem"         Encycle (Construction)           Biold Brain WOTH         Encycle (Construction)         Encycle (Construction)           I (A (Per Minh)         L R (Wool Preparations) Per Bank)         Encycle (Construction)           I (A (Per Minh)         L R (Wool Preparations) Per Bank)         Encycle (Construction)           I (A (Per Minh)         L R (Wool Preparations) Per Bank)         Encycle (Construction)         Encycle (Construction)           I (Construction)         I (Construction)         I (Construction)         Encycle (Construction)         Encycle (Construction)           I (Construction)         I (Construction)         I (Construction)         Encycle (Construction)         Encycle (Construction)           I (Construction)         I (Construction)         I (Construction)         Encycle (Construction)         Encycle (Construction)           I (Construction)         I (Construction)         I (Construction)         I (Construction)         I (Construction)           I (Construction)         I (Construction)         I (Construction)         I (Construction)         I (Construction)	-
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Breit Right Laborg DownRivern         Encycle         E.OOO PLANI COMBINITY         BANK ERDSIDE           Breit Right Laborg DownRivern         E.OOO PLANI COMBINITY         BANK ERDSIDE           L A (Per Nink)         L R (Not Preparations Per Bank)         L N (Per Bank)           C D- MODERATE (IN SEP)         C D-OPER ASSTURE / ROWCROFT()         D D-URBAN OR NOLSTRIAL(D)         D D-WONE OR (FTLE [2])           C D- MODERATE (IN SEP)         C D-OPER ASSTURE / ROWCROFT()         D D-ONSERV. TALAGE (1)         D O-MEANY OR SEVERE(1)           D D-MARROW 5-10m (2)         D D-RESC, PARK (NEW RELD (1)         D D-ONSERV. TALAGE (1)         D O-MEANY OR SEVERE(1)           Y D S-VERY NARROW 1-5m (1)         D O-FENCED PASTURE (1)         D D-MEANY OR SEVERE(1)         D D-MEANY OR SEVERE(1)	-
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Breat Right Laborg DownRivern     Encyl (Construction)       BioA Brain WOTH     EROSION/PURICIPS - P. COO PLANE CMAILTY     BAINS ERDSIDE       I, A (Per Minh)     L. B. (Bioal Preparations) Per Bank)     L. B. (Per Bank)       'OCT WDESSON (A)     YOUFPOREST, SWALM (D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)       C. D. MCDERTATION (D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)       C. D. MCDERTATION (D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)       C. D. MCDERTATION (D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)       DOURARY SHOR (D)     DOURBAN (REACTING)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR MOUSTRILL(D)       DOURARY NARROW SHOR (D)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR SEVERE(1)     DOURBAN OR MOUSTRILL(D)       DD HARMON SHOR (D)     DOURBAN (REACTING)     DOURBAN OR MOUSTRILL(D)     DOURBAN OR SEVERE(1)       DD HARMON SHOR (D)     DOURBAN (REACTING)     DOURBAN OR MOUSTRILL(D)     POOL:       DOURBAN OR BREATHING (D)     MORESTRILL(D)     POOL:     POOL:       MAX DEGTH (C) MULTY     MORESTRILL (D)     POOL:     POOL:	-
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Breit Rejit Laborg Dowikiwan*         EAGSIGN/#UNDEC - E.COD 31 And CMAILTY         BAINS ERDSIDS           I. A PAR WOTH         L. B (Disc Preparations Per Bank)         L. B (We Bank)         DOURSM OR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSM OR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         DOURSMOR POLISTRIALIDID         PODISTRIALIDID         PODISTRIALIDI	
Rever Regits Leabing DownRivern     EAGSIGN/FUNDEC - E.COD FLAM CAMITY     BAINS ERDSIDS       I. A. (Per Benth)     L. B. (Discle Programman Per Benth)     L. N. (Der Benth)     D. C. (Direst Annal)       'OCT-WODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)       'OCT-WODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)       'OCT-WODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     D. VICACURANCY (A)       'OCT-WODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     VODE/Sam (A)     D. VICACURANCY (A)       'OCT-WODE/Sam (A)     'OC-OPINI MASTURAL (A)     D. VICACURANCY (A)     D. VICACURANCY (A)     D. VICACURANCY (A)       'DC-HARMOW 3-10m (A)     D.D. RESD, PARK/NEW AELD [1]     D. CONSERV. TALACE (1)     D. CHARAVY OR SEVERE(1)       'DC-HARMOW 3-10m (A)     D.D. RESD, PARK/NEW AELD [1]     D. CONSERV. TALACE (1)     D. CHARAVY OR SEVERE(1)       'DC-HARMOW 3-10m (A)     D. RESD, PARK/NEW AELD [1]     D. CONSERV. TALACE (1)     D. CHARAVY OR SEVERE(1)       'DC-HARMOW 3-10m (A)     D. RESD, PARK/NEW AELD [1]     D. CONSERV. TALACE (1)     D. CHARAVY OR SEVERE(1)       'DC-HARMOW 3-10m (A)     NERSELE/SE (A)     D. CONSERV. TALACE (1)     D. CHARAVY OR SEVERE(1)       'DC-HARMOW 3-10m (C)     CONSERV. TALACE (1)     <	-
Rever Right Laborg DownRivern     Encode Rever Right Laborg DownRivern       Bited Brain WYDTH     Encode Rever Right Laborg DownRivern       I. A. (Per Bink)     I. B. (Bloat Preparational Per Bank)     I. D. (Jer Bank)       'OCT WDESSom (A)     COMPRESS, SWALM (D)     D.O. URBAN OR MEDISTRIALION (D.O. SHOULD OR UNDERSTRIALION	- -
Breit Regit Lebong Domitikien     Edositich/Punicify - E.COC 3: And CAMITY     BAINS ERDSIDE       BieA Brain     L. R. (Rivel Productions for Bank)     L. N. (Pir Bank)     D. C. NONE CALUTT       I. A. (Pir Bank)     L. R. (Biod Productions for Bank)     L. N. (Pir Bank)     D. Cuncode Calutte [3]       I. D. (Pir Bank)     L. R. (Biod Productions for Bank)     L. N. (Pir Bank)     D. Cuncode Calutte [3]       I. D. (Pir Bank)     D. Concode Calutte [3]     D. Cuncode Calutte [3]     D. Cuncode Calutte [3]       I. D. (MCDERANG 5-16m [2])     D. Concode Calutte [3]     D. Concode Calutte [3]     D. Concode Calutte [3]       I. D. (MCDERANG 5-16m [2])     D. Concode Calutte [3]     D. Concode Calutte [3]     D. Concode Calutte [3]       I. D. (MCDERANG 5-16m [2])     D. (Concode Calutte [3])     D. Concode Calutte [3]     D. Concode Calutte [3]       I. D. (Concode Calutte [3])     D. (Concode Calutte [3])     D. Concode Calutte [3]     D. Concode Calutte [3]       I. D. (Concode Calutte [3])     Concode Calutte [3]     D. Concode Calutte [3]     D. Concode Calutte [3]       I. D. (Concode [3])     Concode Calutte [3]     D. Concode Calutte [3]     D. Concode Calutte [3]       I. Concode [3]     Concode Calutte [3]     D. Concode Calutte [3]     D. Concode Calutte [3]       I. D. (Concode [3])     Concode Calutte [3]     D. Concode Calutte [3]     D. (Concode [3]       I. D. (C	-
Breit Regis Lesting Domitikien?         EAGSIGN/FUNDES - E.COO FLAM CLAITY         BAINS ERDSIDE           ILA DYAN WOTH         L.R. (Most Preparations for Bank)         L.R. (Wastering of Control of	-
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Figure V-4-5 From side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

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D 44-03m [2]       D: POOL WIDTH - REFRLE WRITH [1]       D: FAST[1]       D: FAST[1]         D - 404m [3]       D: POOL WIDTH - REFRLE WRITH [1]       D: FAST[1]       D: FAST[1]         D - 402 2m [Pool v 0]       D: POOL WIDTH - REFRLE W. [9]       D: FAST[1]       D: FAST[1]         D - 402 2m [Pool v 0]       D: POOL WIDTH - REFRLE W. [9]       D: SLOW [1]       D: FINTERALTY: NITERATE IN FLORED DIMESS         D - GENERALLY > 100 cm, MAX-50 [4]       PICS C-MUN ALRESTRATE IN FLORED DIMESS       RIFFLE:       D: GENERALLY > 100 cm, MAX-50 [4]         D - GENERALLY > 100 cm, MAX-50 [4]       PICS C-MUN ALRESTRATE IN FLORED DIMESS       D. GENERALLY S- 10 cm, MAX-50 [2]       D. GENERALLY S- 10 cm, MAX-50 [2]         D - GENERALLY S- 10 cm, MAX-50 [2]       D. GENERALLY S- 10 cm, MAX-50 [2]       D. GENERALLY S- 10 cm, MAX-50 [2]       D. GENERALLY S- 10 cm, MAX-50 [2]         D - GENERALLY S- 10 cm, MAX-50 [2]       D. GENERALLY S- 10 cm [ATTH - 0]       D. GENERALLY S- 10 cm [ATTH - 0]       D. GENERALLY S- 10 cm [ATTH - 0]         D - GENERALLY S- 10 cm [ATTH - 0]       D. GENERALLY S- 10 cm [ATTH - 0]       D. GENERALLY S- 10 cm [ATTH - 0]       GRADIENT:       [4]         D - GENERALLY S- 10 cm [ATTH - 0]       CMON [ATTH - 0]       GRADIENT:       [4]       GRADIENT:       [4]         D - GENERALLY S- 10 cm [ATTH - 0]       SECON [ATTH - 0]       SECON [ATTH - 0]       GRADIENT:       [4] <td>'Aver Rom Louing Co <u>Aver Rom Louing Co</u> <u>Aver Rom Janto</u> L R (Per Jant) C D - MOSERATE 1 CO - MARIOW 5-10 SOC - MARIO</td> <td>E 2025 E 2025 C 2005 C 2005 C 2007 C 2005 C td>owr.lwoiff - A Docs A Gen Predeminant Pet B Rest, swamp of Fin Pastury. Rowc R SSO, Park, New Relo NCEO Pasture [1]</td> <td>AN COLOUTY AND U. F. (Per Ban COURDAN 4 OFICI COURTAN (1) COUCONSER COURTAN COURTAN</td> <td>B CR INDUSTRIANUS - D MC OLO FIELD(3) SR MC OLO FIELD(3) SR MC OLO FIELD(3) SR SCHLOFFIELD(3) SR MC OLO FIELD(3) SR MC OLO FIEL</td> <td>ANK EROSION DAIONE DRIUTTLE GENERATE(2) DAIERAVY OR SEVER POQL:</td> <td></td>	'Aver Rom Louing Co <u>Aver Rom Louing Co</u> <u>Aver Rom Janto</u> L R (Per Jant) C D - MOSERATE 1 CO - MARIOW 5-10 SOC - MARIO	E 2025 E 2025 C 2005 C 2005 C 2007 C 2005 C .lwoiff - A Docs A Gen Predeminant Pet B Rest, swamp of Fin Pastury. Rowc R SSO, Park, New Relo NCEO Pasture [1]	AN COLOUTY AND U. F. (Per Ban COURDAN 4 OFICI COURTAN (1) COUCONSER COURTAN COURTAN	B CR INDUSTRIANUS - D MC OLO FIELD(3) SR MC OLO FIELD(3) SR MC OLO FIELD(3) SR SCHLOFFIELD(3) SR MC OLO FIELD(3) SR MC OLO FIEL	ANK EROSION DAIONE DRIUTTLE GENERATE(2) DAIERAVY OR SEVER POQL:		
D velovinite()     O'-POOL WIDTH + RUPFLE W. (N)     CLOCORATE(1)     D'-INTERADITENT(2)       D velovinite()     O'-POOL WIDTH + RUPFLE W. (N)     D'SLOW (1)     RUFFLE:       D velovinite()     D'SLOW (1)     RUFFLE:     D'SLOW (1)       COMMENTS     PICS CALLY - 10 CALMAX-50 (2)     RUFFLE:     D'STABLE (ng., Combin, Boadway (2)       O'-GENERALLY - 10 CALMAX-50 (2)     O'ANDO: STABLE (ng., Combin, Boadway (2)     D'NOORRATE(0)       O'-GENERALLY - 10 CALMAX-50 (2)     O'ANDO: STABLE (ng., Combin, Boadway (2)     D'NOORRATE(0)       O'-GENERALLY - 10 CALMAX-50 (2)     O'ANDO: STABLE (ng., Combin, Boadway (2)     D'NOORRATE(0)       O'-GENERALLY - 10 CALMAX-50 (2)     O'ANDO: STABLE (ng., Combin, Boadway (2)     D'NOORRATE(0)       D'-GENERALLY - 50 CALLY - 50 CALLY - 60     O'ANDO: STABLE (NG., PAR GIARA) (2)     D'NOORRATE(0)       D'-GENERALLY - 50 CALLY - 60     CALMAD : STABLE (NG., PAR GIARA) (2)     CALMAD : STABLE (NG., PAR GIARA) (2)       CALMAN - 60     CALMAD : STABLE (NG., PAR GIARA) (2)     CALMAD : STABLE (NG., PAR GIARA) (2)       CALMAN - 60     CALMAD : STABLE (NG., PAR GIARA) (2)     CALMAD : STABLE (2)       CALMAN - 60     CALMAD : STABLE (2)     CALMAD : STABLE (2)       CALMAD : STABLE (2)     CALMAD : STABLE (2)     CALMAD : STABLE (2)       CALMAD : STABLE (2)     CALLY - 2)     CALLY - 2)       CALLY - 2)     CALLY - 2)     C	'Aver Rom Louing Co <u>Aver Rom Louing Co</u> <u>Aver Rom Janto</u> L R (Per Jant) C D - MOSERATE 1 CO - MARIOW 5-10 SOC - MARIO	E 2025 L A (0 ) 2005 1050 [1] (2005 60 [2] (2005 10 ALITY FLEMUN GUALITY 1) MC	2448.14018 - 8 202 8 Gel Prodemisunt Pet B REST, SWAMP (3) SN PASTURE ROWC R SSO., PARK, NEW RELD NCEO PASTURE (1) 	AN CONTY ANI) U. R. (Per Ten COURIEN 4 OPICIONSER (1) COUCONSER COURTER COURT 20040160 20040160 200401 (Check /	8) DR (NOLSTRUL) - D MC (OLD FIELD(2) ) 20 V. TRUAGE (1) D (CHISTRUCTION (0) UNISTRUCTION (0) UNISTRUCTION (0) UNISTRUCTION (0) (1) That Apply)	ANK SROSICH DAONE DRUTTLE DAONE DRUTTLE DAONE DRUTTLE DAONE DRUTTLE POOL: VE OCTY	
D0230 [Pool + 0]     D-SLOW [1]     RIFFLE:     6       COMMENTS	Ayer         Regin Looking Oc           Δ1 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)           Δ1 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)           Δ2 - M (M)         Δ1 - M (M)		CHYRUNAIT - H ECC P Gail Predeminumt Pri HEST, SYAMP [1] 'EN PASTURJ/ ROWC R SOL, PARL, NEW PALLO NCEO PASTURE [1] 	AN CONTY ANI) U.R. (Per Ten COURIEN ( OPIDI COSHINE) (1) COCONSER COMMISSION <u>200101</u> (Check J CONTRACT	8) DR DOLO FIELD(2) SR COLO FIELD(2) SR V. TRLAGE (1) D CONSTRUCTION (0) INVERTE: CURRENT 16 There Apply ) AL(-1) THE COLOSI	ANK EROSION DADNE DRUTTLE DADOSERATE(2) DAEAVY OR SEVER POQL: VE COTY	ارا ال
CDMMENTS.       RIFFLE:         CTM E.S. (IN DEPTH       RIFFLE:         C-GENERALLY > 10 cm. MAX.s0(#)       Stable (e.g., Combin, Boader) (2)         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOD, STABLE (e.g., Combin, Boader) (2)         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOD, STABLE (e.g., Combin, Boader) (2)         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOD, STABLE (e.g., Combin, Boader) (2)         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOD, STABLE (e.g., Combin, Boader) (2)         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOD, STABLE (e.g., PAR GARMA, [2]         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOS, STABLE (e.g., Combin, Boader) (2)         C-GENERALLY > 10 cm. MAX.s0(#)       OLKOS, STABLE (e.g., PAR GARMA, [2]         C-MORETIC       OLKOS, STABLE (GARMA, Stable [2]         C-MORETIC       OLKOS, STABLE (GARMA, Stable [2]         C-GRADIENT:       C-MORETIC         C-MORETIC       CRADIENT:         C-MORETIC       Stable         Gradient (Task/mining):       C-MORETIC         C-MORETIC       Stable	'θywar Right Looking Ox <u>θινά θημη γρητής</u> L R (Pie Bank)           Q. Τ. «ΥΧΟΣΕΜΑΤΕ΄ Ν           L C. Τ. «ΝΟΣΕΜΑΤΕ΄ Ν           L OX           C. Τ. «ΝΟΣΕΜΑΤΕ΄ Ν           C. Τ. «ΝΟΣΕΜΑΤΕ΄ Ν           CO - «ΝΑΡΑΘΥΚΑΝΑΟ           CO - «ΝΑΡΑΘΥΚΑΝΑΟ           CO - «ΝΑΡΑΘΥΚΑΝΑΟ           CO - «ΝΟΣΕΜΑΤΕ΄ Ν           CO - «ΝΟΝΕΙΤΟ           CO - «ΝΟΝΕΙΤΟ           ΔΟ - ΛΟΙΝΕΙΟ           ΝΟΔΙ/ΟLΙΩΕ ΑΝΟ ΒΑΝ           Δ. Ο. «Τη (β)           CO - «Τη (β)           CO - 4.0		2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] 	AN CONTY AND U. R. (Per Ben COURDAN 4 COURDAN 4 COURSEA COUR	E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST	ANK EROSION DAIONE DRIUTTLE   DAIOSOGRATE(2) DAIEAVY OR SEVER VELOCITY INAL[-1] [D-HOPO	ارا ال
International provided internationalinterest international provided international p	Ayer Right Looking Co.           20-44         [Pieles 1] (A) WHIT] (2)           L         R         [Pieles 2] (A) WHIT] (2)           C         C - MADE EATE 1           C <td></td> <td>2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] </td> <td>AN COLOUTY ANI) U. R. (Per Ban COURDAN 4 COURDAN 4 COURSEA CO</td> <td>E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST</td> <td>ANK EROSION DAIONE DRIUTTLE   DAIOSOGRATE(2) DAIEAVY OR SEVER VELOCITY INAL[-1] [D-HOPO</td> <td>ارا ال</td>		2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] 	AN COLOUTY ANI) U. R. (Per Ban COURDAN 4 COURDAN 4 COURSEA CO	E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST	ANK EROSION DAIONE DRIUTTLE   DAIOSOGRATE(2) DAIEAVY OR SEVER VELOCITY INAL[-1] [D-HOPO	ارا ال
Intel Editing DEPTH:       Disch Editing DEPTH:       Disch Editing DEPTH:       Disch Editing DEPTH:         O-GENERALLY > 10 cm MAX_50(r)       Disch Editing DEPTH:       Disch Editing DEPTH:       Disch Editing DEPTH:         O-GENERALLY > 10 cm MAX_50(r)       Disch Editing Depth:       Disch Editing Depth:       Disch Editing Depth:       Disch Editing Depth:         O-GENERALLY > 10 cm MAX_50(r)       Disch Editing Depth:       Disch Editing Depth:       Disch Editing Depth:       Disch Editing Depth:         O-GENERALLY S-10 cm (II)       Disch Editing Depth:         I-GENERALLY S-10 cm (II)       Disch Editing Dephicing States E (Shirnel States E (Shirnel States E (Ginnel State	Ayer         Right Looking Oc           2004         2004         2004         2004           2007         2005         2004         2004           2007         2007         2004         2004         2004           2007         2007         2007         2007         2004         <		2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] 	AN COLOUTY ANI) U. R. (Per Ban COURDAN 4 COURDAN 4 COURSEA CO	E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST	ANK EROSION DAIONE DRIUTTLE   DAIOSOGRATE(2) DAIEAVY OR SEVER VELOCITY INAL[-1] [D-HOPO	ارا ال
O-GENERALLY > 10 cm, MAX.s0(4)       OSTABLE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         M.GENERALLY > 10 cm, MAX.s0(4)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILE (e.g., Combin, Boudder) [2:       OEXTENSIVE [-1] O-MODERATE(0)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILY > 10 cm, MAX.s0(7)       OLANO, FRAILY = 10 cm, MAX.s0(7)         O-GENERALLY > 10 cm, MAX.s0(7)       OLANO, FRAILY > 10 cm, MAX.s0(7)       OEXTENSIVE [-1] Cm, MAX.s0(7)         Gradient (Issuer) <td< td=""><td>Ayer Right Looking Co.           20-44         [Pieles 1] (A) WHIT] (2)           L         R         [Pieles 2] (A) WHIT] (2)           C         C - MADE EATE 1           C<td></td><td>2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] </td><td>AN COLOUTY ANI) U. R. (Per Ban COURDAN 4 COURDAN 4 COURSEA CO</td><td>E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST</td><td></td><td>ارا ال</td></td></td<>	Ayer Right Looking Co.           20-44         [Pieles 1] (A) WHIT] (2)           L         R         [Pieles 2] (A) WHIT] (2)           C         C - MADE EATE 1           C <td></td> <td>2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] </td> <td>AN COLOUTY ANI) U. R. (Per Ban COURDAN 4 COURDAN 4 COURSEA CO</td> <td>E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST</td> <td></td> <td>ارا ال</td>		2447.14517 - A 2022 21 Kent Prodominant Pri REST, SWAMP [2] SN PASTURE ROWC R SSO, PARK, NEW ROLD NCEO PASTURE [1] 	AN COLOUTY ANI) U. R. (Per Ban COURDAN 4 COURDAN 4 COURSEA CO	E DR INDUSTRIAUSI COLO FIELD(3) X TOLOG [1] D CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION (0) CONSTRUCTION CONST		ارا ال
GENERALLY sol co. MALE 40(2)       OLMOD. STABLE (40, PAS Gimes) (3)       DEFECON. [1]       OLMOD. STABLE (40, PAS Gimes) (3)         Q: OFNERALLY sol co. [1]       OLMOD. STABLE (40, PAS Gimes) (3)       DEFECON. [1]       OLMOD. STABLE (40, PAS Gimes) (3)         Q: OFNERALLY sol co. [1]       OLMOD. STABLE (40, PAS Gimes) (3)       DEFECON. [1]       OLMOD. STABLE (40, PAS Gimes) (3)         D: OFNERALLY sol co. [1]       OLMOD. STABLE (5000000000000000000000000000000000000	Aver Right Looking Co.           2004 Right Looking Co.           2014 Right Looking Co.           2014 Right Looking Co.           2014 Right Looking Co.           2014 Right Looking Co.           2014 Right Looking Co.           2014 Right Looking Co.           2014 Right Ri		2447.14014 - 11 2022 (1) Gent Prodem Inumit Pet B REST, 544.149 (2) STO., PARK, NEW RELD NCEO PASTURE (1) 	AN COLOUTY AND U. F. (Per Ben COURDAN 4 COURDAN 4 COURSEA COU	8) CR (NOLSTRAL)(3) -D MC (LO FIELD(3) (M Y. TRLAGE (5) D Y. TRLAGE (5	анк <u>свозіон</u> ононе оп отпе ( <b>100</b> -соеваледа; оненуу ок зечек <u>VECOCITY</u> ( тацра) тенті-2; <i>RIFFLE</i> ;	ارا ال
O: CENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]       D: GENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]       D: GENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]       D: GENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]       D: GENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]       D: GENERALLY S-10 cs: [1]     D: CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]       D: GENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]     CENERALLY S-10 cs: [1]       Gradient [Isen/mile]:	Ayer Right Looking Co.           Birds Birth VetTig           L R (Per Berk)           C D'-MORESSER (A)           D C D'-MORESSER (A)           D - 10x (B)           D - 20x (Post + G)           D - 20x (Post + G)           C'D'MORENTS           C'D'MORENTS           C'D'MORENTS           C'D'MORENTS           C'D'MORENTS	E 2025 L A (a) J 2005 I A (a) I 2005 I 20	2448.14014 - 11 2022 (1) Gal Prodemisumt P = 6 HEST, 544.049 (2) EN PASTURE ROAC R ESO, PASTURE (1) 	AN COLOUTY AND U. F. (Per Ten DO-CRIMAN ( OPU) CO-SHARE ( CO-CONSER CO-CONSER CO-CONSER (Chron / C-TORRISHI O-FASTION O-FASTION (Chron / C-TORRISHI O-FASTION (Chron / C-TORRISHI O-SLOW [1]	8. 00. NOUSTRALIO() - D MC OLO FIELO(2) - D MC OLO FIELO(2) - D COLSTRUCTION (0) 	ANK SADSICM     DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       DAONE DRUTTLE       RIFFLE:     MISSICH	ارا ال
D. GEN #RALLY < \$ cm [Activ = 0] :Chave YTS GRADIENT: 4 i  Gradient (Innumine): 2 KPOOL: 43 KAUFFLE: 2.2 KRUN: 35 EA 4570	Aver Regin Looking Co.           End Standy Willies           L R (Field and)           CD-MADESSER(L)           CD-MESSER(L)           CD-MESSER(L)           CD-MESSER(L)           CD-MESSER(L)           CD-MESSER(L)	Elizasi E Elizasi Elizasi E Elizasi E izasi E Elizasi E Eliza	<u>24497.14518</u> - <u>H DO2 P</u> Get Prodeminumt P = <u>B</u> REST, SYAMP [1] EN PASTURE/ ROAC R SOL, PARK, NEW RELD NCEO PASTURE [1] <u>4194.2.067</u> And 1] TH - REFLE WO'TH [2] TH - REFLE WO'TH [2] TH - REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2] <u>1</u> + REFLE WO'TH [2]	ANY COLOUTY ANY) U. R. (Per Tern CO-URIJAN 4 OPIDI CO-SCINESC CO-CONSER	B CR NOLSTRALIST COLOFICLO(2) S COLOFICLO(2) S COLOFICLO(2) S COLOFICION (0) COLOFICION	ANK EROSION D-NONE DRUTTLE   D-NONE DRUTTLE   D-NONE DRUTTLE   D-NONE SEVER POOL: VE COTTY   INAL[-1] D-NONE SEVER INAL[-1] D-NONE SEVER RIFFLE: MESOSCHESS -1] D-NODERATES D-NONE RATES	티니 전 - 전 - 전 -
:0NOVENTS GRADIENT: [4] i  Gradient (1880/mile): XPOOL: <u>N3 '</u> XRUFFLE: <u>3.3.</u> XRUN: <u>35 -</u> EM 4570	Ayer Reprice Looking Co.           Pinks B(A) WHILE:           L R (Pin Bank)           C :: MODERATE N           C :: MEATS           C :: MODERATE N           C :: MEARATE N           C :: MEARATE N           C :: MEARATE N           C :: MEARATE N           C :: MODERATE N		2447.14014 - 11 2022 (1) Gal Prodeminum Per B REST, 5WAMP (0) SSO, PARK, NEW RELD NCEO PASTURE (1) 	AN COLOUTY AND L F (Per Ben COURDAN ( COURDAN ( COURSEA COURE	B CR NOLSTRALIST COLOFICLO[3] S COLOFICLO[3] S COLOFICLO[3] S COLOFICION [0] COLOFICION	ANK EROSION D-NONE DRUTTLE   D-NONE DRUTTLE   D-NONE DRUTTLE   D-NONE SEVER POOL: VE COTTY   INAL[-1] D-NONE SEVER INAL[-1] D-NONE SEVER RIFFLE: MESOSCHESS -1] D-NODERATES D-NONE RATES	티니 [6] - [6] -
i) Gradient (1000/mile): <u>-</u> <u>%POOL: <u>N3</u> <u>%AUFFLE: 3.3.</u> <u>%AUN: 35</u></u>	Aver Regn Looking Co.           Price BLAN WEITLY:           L R [Pie Benk]           C D - MODERATE is           C D - NATOERATE is           D - NATOERATE is           D - NATOERATE is           D - NATOERATE is           D - NATOERATE is           D - NATOERATE is           D - NATOERATE is           D - O - NATOERATE is           D - O - NATOERATE is           D - O - NATOERATE is           D - O - NATOERATE is           D - O - NATOERATE is           D - O - NATOERATE is           D - O - SENERALLY > 10 is           D - O - SENERALLY > 10 is	EROSK L A (a J Z = 50 I = 50 (c) I =	2447.14014 - 11 2022 (1) Gal Prodeminum Per B REST, 5WAMP (0) SSO, PARK, NEW RELD NCEO PASTURE (1) 	AN COLOUTY AND L F (Per Ben COURDAN ( COURDAN ( COURSEA COURE	B CR NOLSTRALIST COLOFICLO[3] S COLOFICLO[3] S COLOFICLO[3] S COLOFICION [0] COLOFICION		티니 [6] - [6] -
EA 4570	Aver Right Looking Co.           Press InAN WRITES           L R (Per Bink)           C D'-MORESSIM (A)           C D'-MORESSIM           C D'-MORESSIM           C D'-MORESSIM           C D'-MORESSIM           C D'-MORESSIM           D - 100 (S)           D - 100 (S)           D - 200 (R)           D - 200 (R)           D - 200 (R)           C D - 100 (S)           D - 200 (R)           C - GENERALLY > 100           C - GENERALLY > 10           D - 200 (R)           C - GENERALLY > 10	EROSK L A (a J Z = 50 I = 50 (c) I =	2447.14014 - 11 2022 (1) Gal Prodeminum Per B REST, 5WAMP (0) SSO, PARK, NEW RELD NCEO PASTURE (1) 	AN COLOUTY AND L F (Per Ben COURDAN ( COURDAN ( COURSEA COURE	B CR NOLSTRALIST COLOFICLO[3] S COLOFICLO[3] S COLOFICLO[3] S COLOFICION [0] COLOFICION		티니 전 - 전 - 전 -
EA 4570	Aver Right Looking Co.           Press InAN WRITES           L R (Per Bink)           C D'-MORESSIM (A)           C D'-MORESSIM           C D'-MORESSIM           C D'-MORESSIM           C D'-MORESSIM           C D'-MORESSIM           D - 100 (S)           D - 100 (S)           D - 200 (R)           D - 200 (R)           D - 200 (R)           C D - 100 (S)           D - 200 (R)           C - GENERALLY > 100           C - GENERALLY > 10           D - 200 (R)           C - GENERALLY > 10	EROSK L A (a J Z = 50 I = 50 (c) I =	2447.14014 - 11 202 21 Gel Prodeminumt Pet REST, 544.449 [2] Fin Pasture Ref Ref SSO, PARK, NEW RELD NCEO PASTURE [1] 	AN COLOUTY AND L F (Per Ban COLORIDAN 4 COLORIDAN 4 COLORIDAN	B CR INDUSTRIALIO RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA CONSTRUCTION (0) INVERTE CURRENT ALL-1) THE OLD FIELD CHARTERSTINE FIELD STRUME OLEXTENSIVE SALES SALES CONSTRUCTION (1)	АНК ЕЛОЗІСМ О-ИОНЕ ОП UTTLE   О-ИСЛЕ ОП UTTLE   О-ИСЛЕ ОТ UTTLE   О-ИСЛЕ   О-ИСЛ	티니 전 - 전 - 전 -
	Aver Regin Looking Co.           Press (A) VMD (A)           L R (Pain Benk)           L D - MODERATE           D - GENERALLY > 100           GENERALLY > 100           GENERALLY > 100           GENERALLY > 100           GENERALLY > 100 </td <td>EDOSK L A (u ) 200500 1050[1] CD AL W1-ban[1] CD AL F[EMUN GUALTT 1] MC CFGC, WD CFGC, W</td> <td>2447.14014 - 11 202 21 Gel Prodeminumt Pet REST, 544.449 [2] Fin Pasture Ref Ref SSO, PARK, NEW RELD NCEO PASTURE [1] </td> <td>AN COLOUTY AND L F (Per Ban COLORIDAN 4 COLORIDAN 4 COLORIDAN</td> <td>B CR INDUSTRIALIO RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA CONSTRUCTION (0) INVERTE CURRENT ALL-1) THE OLD FIELD CHARTERSTINE FIELD STRUME OLEXTENSIVE SALES SALES CONSTRUCTION (1)</td> <td>АНК ЕЛОЗІСМ О-ИОНЕ ОП UTTLE   О-ИСЛЕ ОП UTTLE   О-ИСЛЕ ОТ UTTLE   О-ИСЛЕ   О-ИСЛ</td> <td>티니 전 - 전 - 전 -</td>	EDOSK L A (u ) 200500 1050[1] CD AL W1-ban[1] CD AL F[EMUN GUALTT 1] MC CFGC, WD CFGC, W	2447.14014 - 11 202 21 Gel Prodeminumt Pet REST, 544.449 [2] Fin Pasture Ref Ref SSO, PARK, NEW RELD NCEO PASTURE [1] 	AN COLOUTY AND L F (Per Ban COLORIDAN 4 COLORIDAN 4 COLORIDAN	B CR INDUSTRIALIO RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA CONSTRUCTION (0) INVERTE CURRENT ALL-1) THE OLD FIELD CHARTERSTINE FIELD STRUME OLEXTENSIVE SALES SALES CONSTRUCTION (1)	АНК ЕЛОЗІСМ О-ИОНЕ ОП UTTLE   О-ИСЛЕ ОП UTTLE   О-ИСЛЕ ОТ UTTLE   О-ИСЛЕ   О-ИСЛ	티니 전 - 전 - 전 -
	Aver Right Looking Co.           Enex BLAN WEITEL           L R (Per Benk)           L R (Per Benk)           CO - NATO ES SOM (A)           CO - NATO ES ANO MENTO           CO - SENTRALLY - NO ES	EDOSK L A (u ) 200500 1050[1] CD AL W1-ban[1] CD AL F[EMUN GUALTT 1] MC CFGC, WD CFGC, W	2447.14014 - 11 202 21 Gel Prodeminumt Pet REST, 544.449 [2] Fin Pasture Ref Ref SSO, PARK, NEW RELD NCEO PASTURE [1] 	AN COLOUTY AND L F (Per Ban COLORIDAN 4 COLORIDAN 4 COLORIDAN	B CR INDUSTRIALIO RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA CONSTRUCTION (0) INVERTE CURRENT ALL-1) THE OLD FIELD CHARTERSTINE FIELD STRUME OLEXTENSIVE SALES SALES CONSTRUCTION (1)	АНК ЕЛОЗІСМ О-ИОНЕ ОП UTTLE   О-ИСЛЕ ОП UTTLE   О-ИСЛЕ ОТ UTTLE   О-ИСЛЕ   О-ИСЛ	티니 전 - 전 - 전 -
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	Aver Regin Looking Co.           Press (A) VMD (A)           L R (Pain Benk)           L D - MODERATE           D - GENERALLY > 100           GENERALLY > 100           GENERALLY > 100           GENERALLY > 100           GENERALLY > 100 </td <td>EDOSK L A (u ) 200500 1050[1] CD AL W1-ban[1] CD AL F[EMUN GUALTT 1] MC CFGC, WD CFGC, W</td> <td>2447.14014 - 11 202 21 Gel Prodeminumt Pet REST, 5WAMP [2] FIN PASTURE/ RCWC R ESO, PARK, NEW RELD NCEO PASTURE [1] </td> <td>AN COLOUTY AND L F (Per Ban COLORIDAN 4 COLORIDAN 4 COLORIDAN</td> <td>B CR INDUSTRIALIO RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA CONSTRUCTION (0) INVERTE CURRENT ALL-1) THE OLD FIELD CHARTERSTINE FIELD STRUME OLEXTENSIVE SALES SALES CONSTRUCTION (1)</td> <td>АНК ЕЛОЗІСМ О-ИОНЕ ОП UTTLE   О-ИСЛЕ ОП UTTLE   О-ИСЛЕ ОТ UTTLE   О-ИСЛЕ   О-ИСЛ</td> <td>티니 [6] - [6] -</td>	EDOSK L A (u ) 200500 1050[1] CD AL W1-ban[1] CD AL F[EMUN GUALTT 1] MC CFGC, WD CFGC, W	2447.14014 - 11 202 21 Gel Prodeminumt Pet REST, 5WAMP [2] FIN PASTURE/ RCWC R ESO, PARK, NEW RELD NCEO PASTURE [1] 	AN COLOUTY AND L F (Per Ban COLORIDAN 4 COLORIDAN 4 COLORIDAN	B CR INDUSTRIALIO RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA RE OLD FIELD(3) SA CONSTRUCTION (0) INVERTE CURRENT ALL-1) THE OLD FIELD CHARTERSTINE FIELD STRUME OLEXTENSIVE SALES SALES CONSTRUCTION (1)	АНК ЕЛОЗІСМ О-ИОНЕ ОП UTTLE   О-ИСЛЕ ОП UTTLE   О-ИСЛЕ ОТ UTTLE   О-ИСЛЕ   О-ИСЛ	티니 [6] - [6] -

OA .	Manua: (Bih Update) - P	ish — September 30, 1989	
Procedure No	<u>WOP4-SWS-3</u>	Date Estuad	<u>9-30-99</u>
Revision No.		Date Etternive	9-30-99

PC11

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet lot evaluating the geographical and physical characteristics of this sampling locations. This is used to record information for the calculation of the

Qualitative Habitat Evaluation Index (QHEI).

Listerior       Construction       Construction       Construction       Construction       Construction         Listerior       Construction       th>Onto EPA Sits Description Shoot - Fish OHEI SCORE: 3 Show</th> <th></th>	Onto EPA Sits Description Shoot - Fish OHEI SCORE: 3 Show	
GOBULER RULESTING       KOCHWEL, P)		
D_SOURCERIN       Discovery       C_UNINGTONE (ID_RWARP (ID_DEXT_MOTING))       District MCCRATE; ()         D_SOURCERIN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERIN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERIN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERIN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERIN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERN       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)       District (ID_DEXT_MOTING)         D_SAUNCERN       District (ID_DEXT_MOTING)		
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NOTE:       [] COVER SECONTS         COMMENTS       COVER SECONE:         COMMENTS:       COVER SECONE:         COMMENTS:       COVER SECONE:         COMMENTS:       COVERS (CALCONS (R) COVERES (R)		
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2) BETTREAM COVER       AMELLING ALL THAI ADDI)       AMELLING ALL THAI ADDI)         0-UNDERACUT BANKS [1]       0-OEEE #FOOLS [2]       0-OADDIN'S [1]       0-EXTENSIVE > J'R(1)         0-UNDERACUT BANKS [1]       0-OEEE #FOOLS [2]       0-OADDIN'S [1]       0-EXTENSIVE > J'R(1)         0-UNDERACUT BANKS [1]       0-OEEE #FOOLS [2]       0-OADDIN'S [1]       0-EXTENSIVE > J'R(1)         0-UNDERACUT BANKS [1]       0-OEEE #FOOLS [2]       0-OADDIN'S [1]       0-EXTENSIVE > J'R(1)         0-MERGINES [1]       0-OEEE #FOOLS [2]       0-OADDIN'S [1]       0-EXTENSIVE > J'R(1)         0-MERGINES [1]       0-OEEE #FOOLS [2]       0-ADDIN'S [1]       0-EXTENSIVE > J'R(1)         0-MERGINES       0-MERGINES [1]       0-ADDIN'S [1]       0-ADDIN'S [1]       0-ADDIN'S [1]         0-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES         0-MERGINES       0-ONDERIG       0-MERGINES       0-MERGINES       0-MERGINES         0-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES         1-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES         1-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES       0-MERGINES         1-MERGINES       0-MERGINES       0-MERGINES </td <td></td> <td></td>		
D-LUNDERCUT BANKS[1]       D-GEEF FOOLS [7]       D-OXBONTS[1]       td> <td></td>		
D-UNDERCUT BANKS[1] D-UNDERCUT BANKS[1] D-OZERTANGEN VECTATION[1] D-OZERTANGEN VECTATION[1] D-OZER		
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SINTLEONS (N SLOW WATER[]]]  O BOLLDEAS (1)  CLOSED ON WOODY DEBRIS (1)  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  DOMMENTS  CHARACY ABSENT & SV(1)  CH		
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D. HERH HI       O. EXCELLENT [7] O. HONE [6]       D. HIGH HI       D. SMARGING       D. BLOCATION         D. HEORATE [1] O. OCOOLS       D. ARCOVERNE [1] O. LOW [1]       D. CANOP REMOVAL       D. CANOP REMOVAL       D. SMARGING       D. BLOCATION         M. LOW [2]       X. FAIR [0]       D. POOR [1]       D. ARCOVERNE [1]       D. CANOP REMOVAL       D. CANOP REMOVAL       D. CANOP REMOVAL         M. LOW [2]       X. FAIR [0]       D. POOR [1]       D. POOR [1]       D. CANOP REMOVAL       D. CANOP REMOVAL       D. CANOP REMOVAL         M. NORE [1]       D. POOR [1]       D. POOR [1]       D. POOR [1]       D. CANOP REMOVAL       D. CANOP RE		
Die Moderte [D]       O. BECOVERED [4]       C. MODERTE[1]       D. BLADS         D. MODERTE [1]       O. BONE [1]       D. BECOVERACE [1]       D. CANDER REMOVAL D. LEVED         O. NONE [1]       D. BOOR [1]       D. BECOVERACE [1]       D. CANDER REMOVAL D. LEVED         O. NONE [1]       D. BOOR [1]       D. BECOVERACE [1]       D. CANDER REMOVAL D. LEVED         O. NONE [1]       D. BOOR [1]       D. BECOVERT [N]       D. CANDER REMOVAL D. LEVED         COMMENTS:		
COM [2]       CAR [2]       C. RECOVERING [2]       C. LOW [1]       C. CANDRY REMOVAL C. LEVED         G. NONE[1]       D. POOR[1]       D. RECEVERY [N]       D. ONE SIDE CHANNEL MODERATIONS         COMMENTS:       RECOVERY [N]       D. ONE SIDE CHANNEL MODERATIONS         A) RADIALY 20142 AND RANK EROSKON - (NHEAD ONE best per bank of streek 2 and AVENAGE per bank)       RIPARIAN:       ID         Part Right Losing Commenter       ECCS/COVENTIE: - FLOCO PLANOUMITY       BAYE EROSION         Part Right Losing Commenter       ECCS/COVENTIE: - FLOCO PLANOUMITY       BAYE EROSION         I R PARENTY       L R (Most Prevention hand Pri Benk)       COUNTRAN OR ROUSTRALIO D' D' D' NAME STARK ROW REMOVER PER BANK         CD - MCEESSON [2]       CD OPEN PASTURE REMOVER PER BANK       DO OPEN PASTURE REMOVER PER BANK       BAYE EROSION         CD - MCEESSON [2]       CD OPEN PASTURE REMOVER PER BANK       DO OPEN PASTURE REMOVER PER BANK       DO ONONE OR LOTLE [3]         CD - MCEESSON [2]       CD OPEN PASTURE [1]       CD OPEN PASTURE [1]       CD OPEN PASTURE [1]       DO OPEN PASTURE [1]       DO ONONE OR LOTLE [3]         CD - MCEESSON [2]       CD OPEN PASTURE [1]       CD OPEN PASTURE [1]       CD OPEN PASTURE [1]       DO OPEN PASTURE [1]       DO OPEN PASTURE [1]       DO OPEN PASTURE [1]       DO OPEN PASTURE [1]       DO OPEN PASTURE [1]       DO OPEN PASTURE [2]       DO OPEN PASTURE [	Contracted A contraction of the second of th	
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4) RIPASIAN 20NE AND BANK EROSSON - (sheet ONE back per bank of check 2 and AVERAGE per bank)       RIPARIAN:         4) RIPASIAN 20NE AND BANK EROSSON - (sheet ONE back per bank of check 2 and AVERAGE per bank)       RIPARIAN:         1:Roor Right Lonking Committeen       EROSSON/BUNDEE - ELOCO PLAN OLIMITY       BANK EROSSON         1:A (Par Bank)       L.R. (Mass Precomband Per Bank)       D. ODURENCE ON PRODUCTION       BANK EROSSON         CD WCESSON (W)       TOP FORCEST, Swaw P)       ODURENCE ON PRODUCTION (EST)       D. ODURENCE ON PRODUCTION (EST)         CD WCESSON (W)       TOP FORCED PARTURE (I)       OD CONSERV. TILADE(I)       OD ONONE OR LITTE (S)         CD WCESSON (W)       TOP FORCED PARTURE (I)       OD CONSERV. TILADE(I)       OD ONONE OR LITTE (S)         D' VERY MARROW 1-5m (I)       OD FENCED PARTURE (I)       OD CONSERV. TILADE(I)       OD MEANY OR SEVERE(I)         D' - VERY MARROW 1-5m (I)       OD FENCED PARTURE (I)       OD CONSERV. TILADE(I)       OD MEANY OR SEVERE(I)         D' - VERY MARROW 1-5m (I)       OD FENCED PARTURE (I)       OD CONSERV. TILADE(I)       OD MEANY OR SEVERE(I)         D' - VERY MARROW 1-5m (I)       OD FENCED PARTURE (I)       OD CONSERV. TILADE(I)       OD MEANY OR SEVERE(I)         D' - VERY MARROW 1-5m (I)       OD FENCED (MOTH - REFLE WIDTH [2]       OT TORRENTIAL(-1)       O' FOOL         D' - VERY MARROW 1-5m (I)       OD FENCED (MO	RECOVERY [1] DI ONE SIDE CHANNEL MODIFICATIONS	
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LA (PAR BURK) LA (Mail Presonitant Presult) LA (PAR BURK)		
CD WCESSDR [4]       CD PARKATE 10 S0 [1]       POOL:       [2]       [2]       POOL:       [2]       POOL:       [2] </td <td></td> <td></td>		
CD MCLEANING (CONSTRUCTION (CONSTRUCTION (CONSTRUCTION (C))) CD MCLEANING (CONSTRUCTION (C)) CD MCLEANING (C	L R. (Mast Pressminant Per Bank) L R. (Mast Pressminant Per Bank)	
CD:MCDERATE 1050 []       CD:OPEN PASTURE ADVICEOPISI DD:SHRUB OR OLO MELOZI DE SMODERATE,3]         OC:MARROW 5 LOW []       CD:RESD, PARKINEW RELD [L]       CD:COMBENT, TLLADE [L]       D:OMEANY OR SEVERE[L]         DD:VERY MARROW 1-5m [L]       CD:RESD, PARKINEW RELD [L]       CD:COMBENT, TLLADE [L]       D:OMEANY OR SEVERE[L]         DD:VERY MARROW 1-5m [L]       CD:RESD, PARKINEW RELD [L]       CD:COMBENT, TLLADE [L]       D:OMEANY OR SEVERE[L]         DD:VERY MARROW 1-5m [L]       CD:REALY OR SEVERE[L]       CD:DMININGCONSTRUCTION [0]         DD:VERY MARROW 1-5m [L]       CD:REALY (CHERK 1)       MGRPHOL:KSY       POOL:         MEX. CONTURE NO.       MGRPHOL:KSY       POOL       POOL:       POOL:         MEX. CONTURE NO.       MGRPHOL:KSY       POOL       POOL:       POOL:         DD:STRIE       (Cherk 1)       MGRPHOL:KSY       POOL:ESIN       POOL:         DD:STRIE       (Cherk 1)       O:FOOR MIDTH / REFRETE       D:FOOR MIDTH / REFRETE       POOL:       POOL:         DD:STRIE       (Cherk 1)       O:FOOL WIDTH / REFRETE       O:FOOR MIDTH / REFRETE       PIFFLE:       D:FOOR MIDTH / REFRETE		
D'O VERNY MARROW 1-Sm [7] O'D FENCED PASTURE [1]       D'D MININGTONSTRUCTION [0]         D'D VERNY MARROW 1-Sm [7] O'D FENCED PASTURE [1]       D'D MININGTONSTRUCTION [0]         D'D MONETO       POOLGUDE AND RUFLEMUN QUALITY       POOLGUDE AND RUFLEMUN QUALITY         POOLGUDE AND RUFLEMUN QUALITY       POOLGUDE AND RUFLEMUN QUALITY       POOLGUDE AND RUFLEMUN QUALITY         Max. Chart (Check 1)       MCRPHC://ST       POOLGUDE AND RUFLEMUN QUALITY         D SIN [6]       (Check 3)       (Check 3)         D SIN [6]       (Check 3)       (Check 3)         D C 46.0.1m [2]       O -POOL WIDTH > REFLE WIDTH [1]       D'FASTINI         D - 40.0.11       O -POOL WIDTH > REFLE WIDTH [1]       D'FASTINI         D - 40.0.11       O -POOL WIDTH > REFLE WIDTH [1]       D'FASTINI         D - 40.0.11       O -POOL WIDTH > REFLE WIDTH [1]       D'FASTINI         D - 0.0.11       O -POOL WIDTH + REFLE WIDTH [1]       D'FASTINI         D - 0.0.11       O -POOL WIDTH + REFLE WIDTH [1]       D'FASTINI         D - 0.0.11       O -POOL WIDTH + REFLE WIDTH [1]       D'FASTINI         D - 0.0.11       O -POOL WIDTH + REFLE WIDTH [1]       D'FASTINI         D - 0.0.11       O'FOOL WIDTH + REFLE WIDTH [1]       D'FASTINI         D - 0.0.11       D'FASTINI - REFLEMUN - SUBARUTY - SUBARUTY [2]       D'FASTINE [1]		
D-3-VERY MARROW 1-5m [1] OD-FENCED PASTURE [1] DD-ADINECCONSTRUCTION [0] DD-ADINECT POOLSLODE AND REFLERIUN QUALITY PSC - FOTH (Check 1) D-31m [6] D-31m [6] D-30m [6] D-40.0m [1] D-40.0m  [ag_Code & Boden [1] D-40.0m [1] D-5TABLE [ag_Code & Boden [1] D-40.0m [1] D-5TABLE [ag_Code & Boden [1] D-40.0m [1] D-5TABLE [ag_Code & Boden [1] D-6ENERALLY \$10 cm [1		
Distriction     Distriction     POOL:     POO		
CDIMENTS.       POOL       POOL       POOL         POOL       MGRPHOL/KGT       POOL       POOL         Max       CREAT       MGRPHOL/KGT       POOL         Data(SLIDE AND RUFLERUIN GUALITY       MGRPHOL/KGT       POOL         Max       CREAT       (Check 1)       MGRPHOL/KGT         Data(SLIDE AND RUFLE       (Check 1)       (Check 1)       O'EDDKES(1)         Data(SLIDE AND RUFLE       MGRPHOL/KGT       (Check 1)       O'EDDKES(1)         Data(SLIDE AND RUFLE       O'EDDKES(1)       O'EDDKES(1)       O'EDDKES(1)         Data(SLIDE AND RUFLE       O'EDDKES(1)       O'EDDKES(1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)         Data(SLIDE AND RUFLE       O'EDDKES(1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)         Data(SLIDE AND RUFLE       O'EDDKES(1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)         Data(Pase a)       O'EDDKES(1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)         COMMENTS:       E'ESELE/O'UN SUPSTITAL       O'ESTABLE (as Comm, Booker)(2)       O'ENTERSTITAL(-1)       O'ENTERSTITAL(-1)         O'ODENERALLY SIDEMMAXESD[A]       O'MOD STABLE (as Comm, Booker)(2)       O'ENTERSTIE(-1)       O'MOD STABLE (GRAWN, SAMO)(2)		
POOLGUDE AND REFLEMUN QUALITY     POOL: 17       VSX_CRETH (Check 1)     MCRPHC://ST       VSX_CRETH (Check 1)     MCRPHC://ST       D > 1n [6]     (Check 3)       QCALWORKET - CURPENT VELOCY       QCALWORKET - CHERNALTY       D > 1n [6]       QCALWORKET - CHERNALTY       D > 40.46.7m [2]       Q - POCL WIDTH - REFLE WIDTH [2]       QC-AMINGALTY       D > 40.46.7m [2]       Q - POCL WIDTH - REFLE WIDTH [1]       Q'-FAST[1]       Q'-AUMENTS:       Q-AUMENTS:       Q-ODEREALLY > 10 cm/MAX-SQ[4]       Q-STABLE [ag_CCMM, Solder](2)       Q-ODEREALLY S-10 cm [1]       Q-ODEREALLY S-10		
MSX       CRETIAL (Black 1)       MGRPHCLUGY       POCALINATIVE L. EURPENT VELCOTY         D >10 (6)       (Check 3)       (Check 3)       (Check 4)         D < 0.40.75 [2]		•
D >10 (6)       (Check 3)       (Check 45 That Apply)         D >10 (6)       (Check 3)       (Check 45 That Apply)         D < 0.00 (7) (7)		
C.7-Im[4]       D-POCL WIDTH > REFLE WIDTH [2]       D-TORRENTIAL[-1]       D'EDDRES! I         D-C.4-0.7m [2]       O-POCL WIDTH > REFLE WIDTH (1)       D'FAST[1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         D-c.4-0.7m [2]       O-POCL WIDTH > REFLE WIDTH (1)       D'FAST[1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         D-c.4-0.7m [2]       O'POCL WIDTH > REFLE WIDTH (1)       D'FAST[1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         D-c.4-0.7m [2]       O'POCL WIDTH > REFLE WIDTH (1)       D'FAST[1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         D-mO2m [Pass = 0]       O'POCL WIDTH > REFLE WIDTH (2)       O'BOCE RATE [1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         D-STABLE [ IS_D_COMM, SUPSTEATE       D'STABLE [ IS_D_COMM, BOARD [C]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         O-OBRERALLY > 10 cm/MAXLS 50 [4]       D'STABLE [ IS_D_COMM, Boarder] (2)       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         C-STABLE ALLY > 10 cm/MAXLS 50 [4]       D'STABLE [ IS_D_COMM, Boarder] (2)       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1]         C-STABLE ALLY > 10 cm/MAXLS 50 [4]       D'STABLE [ IS_D_COMM, SAMO [6]       D'ENTERSTITAL[-1]       D'ENTERSTITAL[-1] <td></td> <td></td>		
D. C.4.C.TM [2] O-POCL WIDTH & RIFR E WUTH (1) O'-FAST(1) D- 0.4.m [1] O'-POCL WIDTH & RIFR E WUTH (1) O'-FAST(1) D- 0.4.m [1] O'-POCL WIDTH & RIFR E WUTH (1) O'-FAST(1) D- 0.2.m [2.5.m [2.5.m [1] O'-POCL WIDTH & RIFR E WUTH (1) O'-FAST(1) D- 0.2.m [2.5.m [2.5.m [2.5.m [1] O'-POCL WIDTH & RIFR E WUTH (1) O'-FAST(1) D- 0.2.m [2.5.		
D = 0.cm[1]       O = POOL WIGTK + RLEALE W. [0]       D=000 RATE [1]       O = ANTERALTENT[-2]         D=000 REPAILY = 00       0 = POOL WIGTK + RLEALE W. [0]       O = SLOW [1]       D = NTERALTENT[-2]         D=000 REPAILY = 10 cm MAX-sol[4]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 REPAILY = 10 cm MAX-sol[4]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]       D = STABLE [ as Convertion Router [1]         D=000 STABLE [ as Convert [1]       D = STABLE [ a		
D02m[2xx = 0] COLAVENTS: D-02m[2xx = 0] COLAVENTS: D-02mERALLY > 10 cm.MAX-S0[4] D-02MERALLY > 10 cm.MAX-S0[4] D-02M		
COMMENTS: PIFFLE: PIFFLE: PIFFLE: D. STABLE (a.g. Comments) (2) COMMENTS: COMMENTS: D. GENERALLY 510 cm [1] D. GENER		
PIED 2: CHINA DEPTM     PIET EXDUCT SUPERATE     PIET EXDUCT SUPARATE     PIET EXDUCT SUPERATE <td></td> <td></td>		
PISOL DROTH     EVELLE/OUNSTRATE     AIFT ERUN EVESTIGENRESS       D. OZNERALLY > 10 cm.MAX.SO[4]     D. STABLE (ag. Conv., Subset)(2)     D. EXTENSIVE [-1] D. MODERATE(0)       D. OZNERALLY > 10 cm.MAX.SO[4]     D. STABLE (ag. Conv., Subset)(2)     DEXTENSIVE [-1] D. MODERATE(0)       D. STABLE (ag. Conv., Subset)(2)     D. MODERATE(0)     DEXTENSIVE [-1] D. MODERATE(0)       D. STABLE (ag. Conv., Subset)(2)     D. MODERATE(0)     DEXTENSIVE [-1] D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(3)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(4)     D. MODERATE(0)     D. MODERATE(0)       D. STABLE (ag. New Grave)(4)     D. MODERATE(0)     D. MODERATE(0)       D. GRADIENTS     D. MODERATE(0)     D. MODERATE(0)	AIFFLE: D	
D-DENERALLY > 10 cm.MAX-50[4] D-STABLE (a.g. Conver. BoxExr) (?) DEXTENSIVE [-1] D-MODERATE(0) C-OENERALLY S-10 cm [1] D-DENERALLY S-10 cm [1]		
C-DENERALLY SIDEMMAX250[3] DIMOD STABLE (BANK), SANO(0) ALLOW, [T] DIMONELS: D-DENERALLY SIDEM[1] D-DENERALLY		
CENERALLY 5-10 cm [1] CUNSTABLE (Gravel, Sans)[0] C. NO RIFFLE[0] D. GENERALLY 4 S cm [A:III - 0] COMMENTS GRADIENT:		
D- GENERALLY + 5 cm [Allis - C] GRADIENT:		
COMMENTS GRADIENT: 4.		
6) Gradient (feetimile): 1+150 \$8000		
	6] Gradieni (feetimile): 1+158 xPOOL: XRIFFLE: XRIFFLE: XRIFFLE:	

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QA Manual (Str. Update) — Fish — September 30, 1989 Procedure No. <u>WDP4-SWS-3</u> Date Issued <u>9-30-89</u>

Date Effective . 9.30-99

209 81/0/99

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical

characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habital Evaluation Index (OHEI).

Onio EPA 211: Deceription Sheet - Fish Queen Covell 110/85 Pres Cade 17 - 5 1/1. R Smarr 1 I SUESTAATE (Check ON, FTwo Summary TYPE BOXES; Gheet all types present; AVASTRATE AVALITY SUBSTRATE SCORE: FOOL REFLE POOL REFELE TPE COBLER /SLABSING \_\_\_\_\_ COGRAVEL (7) \_\_\_\_ \_\_\_\_\_ <u>Succ</u>tain Crisis (Starts all) Sin Cover (Check One) 
 OLEVESTORE
 DEMOST NOTE STORE

 X
 OLEVESTORE
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 DI FRICULIO E A IN 10042-010 \_ 00460/0001 00-0088.6 (4) Edeni Of Embergeness (Chest Gran) O--ExtEnsive (-1) E--+CODEAATE(-1) O--LOW(5) O--NONE(1) (4 AN HARDRAN (2) × DSHALEFI DOW/CK12 TOTAL NUMBER OF SUBSTRATE YVPIS: D. 4 [2] C- or 4 [2] D-COAL FINES [2] NOTE: (prore subje due provide from port-subject, store is based on name automates) COMMENTS COVER SCORE: 10 . AMOUNTICARE ONLY ONE I) POTREAM COVER check 2 and AVEAA CE TYPE [Check All The Apply] 49-0657 POOLS [2] 2(-RCOTWADS [1] 0-BOULDERS [1] LANDERCUT BANKS (1) D-OVERHANDING VEGETATION (1) D-0000045(1) D VALUATIC MACROPHYTES (1) D - MODERATE 25-73% [7] CLOCS OR WOODY DEBRIS [1] C BPARKE 5-25% [2] D -SHALLOWS (IN SLOW WATER) [1] . O - NEARLY ABSENT + 1111 ---COMMENTS: CHANNEL: 🖂 I 🔿 3; CHARGE, BORPHOLDOY; [Charle GALT Gree PER Catagory Off crack 2 and & VERAGE] MODIFICATIONS/OTHER DEVELOPMENT CHANNELIZATION STAMLITY \$140-158 TY 
 Description
 Description
 Description

 0 - EXCELLENT [7]
 D - NONE [4]
 O - HIGH [4]
 O - SWAGGING

 0 - EXCELLENT [7]
 D - NONE [4]
 O - HIGH [4]
 O - SWAGGING

 0 - EXCELLENT [7]
 D - RECONTRIME [4]
 J - MODEFATE [2]
 O - RELOCATION

 X - ANGE [1...]
 X - RECONTRIME [4]
 D - LOW [1]
 D - CANGER REM

 X - POOR [3]
 O - RECONTRIME [2]
 O - SWEDCANC
 D - OWEDCANC
 O- CHOUND. O-HONNI O-ISLANDS D - CANOPY REMOVAL CI - LEVELD O - BANK SHAPING D - CHE SIDE CHANNEL MODIFICATIONS RECOVERY [1] COMMENTS: RIPARIAH: 🔊 - 🖓 4] REFEREN ZONE AND BARK EROSION - (check ONE has per back or cleack 2 and AVERAGE per bark) "Rever Roots Looking Downsteam" RIPARIAN WOTH FROSION/RUNDER - PLOOD PLAN QUALITY SANK SECSION L P. (Mast Predaminget Per Bank) L R (Per Bank) L B (Per Bank) CO FOREST, SWAMP [2] CO-URGAN OR MOUSTRIALIN C CONDAL OR LITTLE [3] DOWNER SHOW HI COPEN PASTURE: ROWCROPHI DOSHAUS CA OLD RELOCI . CHACOGRATE(2) CC 4402684TE 10-50(3) D O" - MARROW S 19m (2) DO RESO, PARKINEW RE D [1] DOCONSERV. TRUAGE [1] -DOLVERY NARROW 1-5m (1) CO-FENCED PASTURE [1] CO-NONE[0] D D-MINING CONSTRUCTION ICI COMMENTS: POOL: 🚱 POOL/GLIDE AND RUFFLERUM QUALITY MAX CEPTS (Coach 1) NORTHOLOGY POOLAUNARELE CURPENT VELOCITY (Check ##Thei Apply) (Check 1) ⊈ைன⊚ O"POOL MOTH > RIFFLE WOTH [2] D 6.7 Im [4] O-TORRENTIALI-1| O'-EDDIES(1) โล คอ คงอินอิไ THOSE WISTH - MIFFLE WOTH [1] D-0.6-0.7m.(2) OF FAST(1) CHINTERSTITIALI-11 CT-INTERMITENTI 2) CI-MODERATE (1) 0.0.4-01 🗩-SLOW [1] COMIENTS. RIFFLE: 01 NET FRUN SUBSTRATE BEFF, FIRLIN, FARENOSONESS BIEFLETE / DÉSTA D - GENERALLY > 10 cm,MAX-53 [4] D STABLE (= g Coosie, Boulder) [2] D-EXTENSIVE (-1) D-MODERATE(2) D-GENERALLT + 10 cm. MAX 2453 [3] DAEOD, STABLE (\* 6., Pre Grave's [1] DLOW, [1] C-NONEI2\* HO RIFF LECT C) GENERALLY S-10 mm [1] D-UNSTABLE (Gravel Sand) [0] D - GENERALLY & 5 em [Rithe = C] ā GRADIENT: COMMENTS\_ KPOOL: /02 WRIFFLE: **KRUN** 

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Revision No.

QA.	Manual (6th Update) – F	sh — September 30, 1989	,	8/9/99
Procedure No.	<u>WQPA_SWS_3</u>	Date traved	<u>9-30-89</u>	PC8
Revision No.	6	Date Effective	9-30 <u>-89</u>	

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the

Qualitative Habitat Evaluation Index (QHEI).

	Bescription S Creek	79090 - 1-80 <b>0</b>	) Aw0=	. <u>8/\/</u> 4		<u>t</u> - 165
	<u> </u>			Crief LA	<u>58.658</u>	
1) SUBSTRATE (Check C TYPE		POOL PUTLE	SA PORATE.		ISTRATE SCORE	• [17] - % (
			<u>aleria Oriala</u> (Cheala		inter (Check One)	
	<b>X</b> D SAND [0]		C STONE [1] D FURTH	N BEL D ST 1 H	EAVY [ 2] CALT HOCE	RATE [-1]
O O COUBLE (7	0 0-8E0ROCK		15(1) 204400		NORMAL [0] CHERTE	
			NOT TONE IN		nt Ci Embeddiness /Cre	
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TOTAL MUNICE OF SUB	STRAFE TYPESCER 4(Z)				ewild D-New	41)
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4) RIPARIAN ZONÉ AND 1 "Aver figite Looking Dowes		: OHE boy per had	k or check 2 and AV	ÉAAGE per bani	) RIPARIAN:	<u>ت</u> ا -
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Awar Right Looking Dowes <u>Right Bank WOTH</u>	ENAN' <u>FROSION/RUNO</u> L.R. (Maid Preda	<u>FF - FLOOD PI AN</u> Millioni Per Bankj	L R (Per Bank)	I	•	1 <b>11</b> -
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-Aver Right Looking Dowes <u>Rive <sup>10</sup>2AC (2007)4</u> (. R. (Per Bank) D. CWIDS-S20 (4)	EROSION/RUNO L.R. (Main Pride Corporest, Sw S) Corporest, Sw	FF - FLOOD PLAN Minani Per Bankj (AMP (2) URE: ROWCROP(3)	(CC)ALITY L R (Aw Bank) CICHURBAN GA M	ः । (ULANATELICI) (ULANATELICI)	BANK EROSION	
<ul> <li>Aver Right Looking Dowes</li> <li><u>Rive Bank WOTH</u></li> <li>R (Fer Bank)</li> <li>C T-WISESSON [4]</li> <li>C T-WISESSON [4]</li> <li>C T-WISESSON [5]</li> <li>C T-WARROW 5-100 (2)</li> </ul>	EROSION/RUNO L.R. (Main Print) Conforest, SM S) Conforest, SM 2) COnforest, SM 2) COnforest, PAR	FF - FLOOD FLAN Mainteni Per Banki (AMP (2) URE: ROWCROP(3) K. NÉW PIELD (1)	(CUALITY L R (Per Senk) COLURSAN CA M ] COLURSAN CA M	י 1) מעשלאועניט 10 הפבטנאן 10 נוסבניט 1	E <u>anni Éricsión</u> G. O-Noné or uttle <b>G. Bri</b> agoerate(2)	
<ul> <li>Aver Right Looking Dowes</li> <li><u>Rive Bank WOTH</u></li> <li>R (Fer Bank)</li> <li>C T-WISESSON [4]</li> <li>C T-WISESSON [4]</li> <li>C T-WISESSON [5]</li> <li>C T-WARROW 5-100 (2)</li> </ul>	EROSION/RUNO L.R. (Main Print Corderest, Sw S) Corderest, Sw	FF - FLOOD FLAN Mainteni Per Banki (AMP (2) URE: ROWCROP(3) K. NÉW PIELD (1)	(CDALITY L R (Aw Bank) Old-Urban of M I DID-SHAUS OR OL DID-CONSERV, TH	י 1) מעשלאועניט 10 הפבטנאן 10 נוסבניט 1	E <u>anni Éricsión</u> G. O-Noné or uttle <b>G. Bri</b> agoerate(2)	
<ul> <li>Aver Right Looking Dowest <u>Rive Start WOTH</u></li> <li>E (Fei Sent)</li> <li>C - WESE Start []</li> <li>C - WESE Start []</li> <li>C - WESE Start []</li> <li>D - MARCH S I dow []</li> <li>C - WESE MARCH S I dow []</li> </ul>	EROSION/RUNO L.R. (Main Print) Conforest, SM S) Conforest, SM 2) COnforest, SM 2) COnforest, PAR	FF - FLOOD FLAN Mainteni Per Banki (AMP (2) URE: ROWCROP(3) K. NÉW PIELD (1)	(CDALITY L R (Aw Bank) Old-Urban of M I DID-SHAUS OR OL DID-CONSERV, TH	י 1) מעשלאועניט 10 הפבטנאן 10 נוסבניט 1	E <u>anni Éricsión</u> G. O-Noné or uttle <b>G. Bri</b> agoerate(2)	
- Aver Right Looking Dowes <u>Rive Start WOTH</u> (, R. (Per Bank) D. :- WRODERATE 10-50 D. :- NARROW 5-108 D. :- VERY NARROW 1- D. :- VERY NARROW 1- (C) :- VERY NARROW 1-	ERDSIGNIPUNO L R (Main Product Co-Forest, SM (3) CO-Forest, SM (3) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR	<u>15 - El Ogo Pi APi</u> Indiano Pie Bankj Visio Rowonorys K. Néw Pisilo (†) 570 ag (†)	(CDALITY L R (Aw Bank) Old-Urban of M I DID-SHAUS OR OL DID-CONSERV, TH	י 1) מעשלאועניט 10 הפבטנאן 10 נוסבניט 1	E <u>anni Éricsión</u> G. O-Noné or uttle <b>G. Bri</b> agoerate(2)	
- Aver Right Looking Dowes <u>Rice Bark</u> (VCTH L. R. (Per Bank) D. 7-MICS-Son (H) D. 7-MICS-Son (H) D. 7-MICS-Son (H) D. 7-MICS-Son (H) D. 7-MICS-Son (H) D. 7-MICS D. 7-	ERDSIGNIPUNO L R (Main Product Co-Forest, SM (3) CO-Forest, SM (3) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR	<u>15 - El Ogo Pi APi</u> Indiano Pie Bankj Visio Rowonorys K. Néw Pisilo (†) 570 ag (†)	COALTY L R (Per Sank) ODURAN GR N DO-SANUG OR O OG-CONSERV, TH DO-NINGN/JCONS	י 1) מעשלאועניט 10 הפבטנאן 10 נוסבניט 1	BANK ÉROSIÓN D DANONE OR UTTLE CIMINSDERATE[2] D DHEAVY OR SEVER	
· Aver Right Looking Dowes <u>Rive Bank</u> L. R. (Per Bank) D. J. WIDS-San (H) D. J. MARROW 5: Iom (J D. J. MARROW 5: Iom (J D. J. VERY NARROW 1: VERY NARWO 1: VERY NARROW 1: VERY NARRO	ERDSIGNIPUNO L R (Main Product Co-Forest, SM (3) CO-Forest, SM (3) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR (4) CO-RESU, PAR	FF - FLOOD FLAN Mainteni Per Banki (AMP (2) URE: ROWCROP(3) K. NÉW PIELD (1)	COALTY L R (Per Sank) ODURAN GR N DO-SANUG OR O OG-CONSERV, TH DO-NINGN/JCONS	י 10 הפרט(ג) 10 הפרט(ג) 14 העכבונית 10 המעכבונית 10 הבינית 10 הערבונית 10 הערבונית 10 הערבונית	BANK ÉROSIÓN D DANONE OR UTTLE CIMINSDERATE[2] D DHEAVY OR SEVER	
· Aver Right Looking Dowes <u>Rive Bank</u> L. R. (Per Bank) D. J. WIDS-San (H) D. J. MARROW 5: Iom (J D. J. MARROW 5: Iom (J D. J. VERY NARROW 1: VERY NARWO 1: VERY NARROW 1: VERY NARRO	ERDSIGNIPUNO L R (Main Product Di-Forest, SM (3) CO-Ference Past (3) CO-RESIL, PAR (4) CO-RESIL, PAR (4) CO-RESIL, PAR FUN CUALISTY 120751251	EF- ELOGO PLAN MININA PARA (AAP D) URE ROWCRONS K. NEW RELD [1] STURE [1]	COALTY L R (Per Bank) ODURAN GR M DOSCASERV, TH DOSCASERV, TH DONNOCCOME	: 10.0557404.03 10.062(7) 4 1.062(7) 10 1.042(7) 10 1.042(7) 10.0577 10 1.042(7) 10 1.042(7) 10 1.042(7) 10 1.042(7) 10 10 10 10 10 10 10 10 10 10 10 10 10	EANY EROSION D DHONE OR UTTLE CIMINGO ERUTTLE D DHOEAVY OR SEVEN POOL: YELDOIT!	
· Aver Right Looking Dowes <u>RIPE BARK</u> L. R. (Per Bank) D. J. MIDS-Ston (4) D. J. MARROW 5: 10m (2) D. J. VERY NARROW 1: SCOMMENTS: POOL/GLIDE AND REFILE 1007, DEPT-1 (Check 2) D. C.7.16() D. C.7.16()	EEDSIONYRIUNO L R (Men Prode D-FOREST, SM (5) CO-REST, SM (5) CO-REST, PAST (1) CO-REST, PAST (2) CO-R		(Charles (Constant) (Constant) (Constant) (Constant) (Constant) (Constant) (Constant) (Constant) (Constant) (Constant) (Constant)	: 10.0517404.(0) 10.062(1) 11.062(1)	BANK ÉROSIÓN D DHONE OR UTTLE KIRINGDERATE[2] D DHEANY OR SEVEN POOL: YELOCITI (1)	≝n [8] -
· Aver Right Looking Dowes <u>RIPE BARK</u> L. R. (Per Bank) D. J. MIDS-Ston (4) D. J. MARROW 5: 10m (2) D. J. VERY NARROW 1: SCOMMENTS: POOL/GLIDE AND REFILE 1007, DEPT-1 (Check 2) D. C.7.16() D. C.7.16()	EEDSION/PEUNO L R (Mein Prode D-FOREST, SW 3) CO-RESULPAR 3 OO-RESULPAR 50 (1) CO-FENCED FAS ENN CUALITY <u>2015/25/25</u> (Check 1)	E - ELOGO PLAN Inninani PW Bankj KAMP (D) URE: ROWCHOPYS K. NEW RELD (T) STURE (1) CT AL RINETAL LE WOTH (1) LE WOTH (1)	COALTY L R (Per Bank) ODUBBAN GR M OD-SHRUP OR OL OD-CARSENV, TH DD-NRONC/CONS POC.REATE (Cherch Art Th O-TORRENTIAL)	2 2015577404107 1 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2)	BANK ÉROSIÓN C GHOME OR UTTLE C DHOGAYY OR SEVEN POOL: YELOCIT! (1) 210-244 (0-NOP)	≝n [8] -
- Aver Right Looking Dowes <u>Rive Bank</u> L. R. (Par Bank) D. J. MIDS-Son (H) D. J. MIDS-Son (H) D. J. MARROW 5- ION (2) D. J. MARROW 5- ION (2) D. J. VERY NARROW 1- VERY NARROW 5- ION (2) COMMENTS: POOL/GUDE AND REFLE <u>1000 (1000)</u> D. D. T. IM (4) D- 0.4-0.7m [2]	EIDSIDNYIIINO L R (Man Produ D-FOREST, SM (3) CO-RESO, PAST 2) CO-RESO, PAST 3) CO-RESO, PAST 3) CO-RESO, PAST 3) CO-RESO, PAST 4) CO-RESO, PAST 4) CO-RESO, MOTH - RIFR 4) PDOL WOTH - RIFR	E - ELOGO PLAN Inninani PW Bankj KAMP (D) URE: ROWCHOPYS K. NEW RELD (T) STURE (1) CT AL RINETAL LE WOTH (1) LE WOTH (1)	COALTY L A (Per Sank) ODUBBAN GA M ODUBBAN GA M OD-SANUA GA M OD-CARSENV, TH OD-NIKON(JCONS POC)(RIGNIT (Check Arth OT-CARST(1)	2 2015577404107 1 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2)	BANK ÉROSIÓN C GHOME OR UTTLE C DHOGAYY OR SEVEN POOL: YELOCIT! (1) 210-244 (0-NOP)	≝n [8] -
• Aver Right Looking Device <u>Rive Bank</u> L. R. (Per Bank)           D. T. WIDS-Ston [4]           D. C. T. Im [4]           D. C. Ston [1]	EIDSIDNYIIINO L R (Man Produ D-FOREST, SM (3) CO-RESO, PAST 2) CO-RESO, PAST 3) CO-RESO, PAST 3) CO-RESO, PAST 3) CO-RESO, PAST 4) CO-RESO, PAST 4) CO-RESO, MOTH - RIFR 4) PDOL WOTH - RIFR	E - ELOGO PLAN Inninani PW Bankj KAMP (D) URE: ROWCHOPYS K. NEW RELD (T) STURE (1) CT AL RINETAL LE WOTH (1) LE WOTH (1)	COALTY L R (Per Bank) ODUBENN GR DI ODUCCASERV, TH ODUCCASERV, TH ODUCCASERV, TH ODUCCASERV, TH ODUCCASERV, TH POCOLOGICASERV (Check ATT) O'LICOERATE (1)	2 2015577404107 1 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2)		≝n [8] -
Aver Right Lotting Downs           Birst Bankj           C         R (Fe Bankj)           C 7 - WIDS>50m (F)           D 8 - 7 - WIDS           D 8 - 7 - WIDS           D 8 - 7 - WIDS           D 8 - 8 - 0.7m [2]           D - w000 = 7]	EIDSIDNYIIINO L R (Man Produ D-FOREST, SM (3) CO-RESO, PAST 2) CO-RESO, PAST 3) CO-RESO, PAST 3) CO-RESO, PAST 3) CO-RESO, PAST 4) CO-RESO, PAST 4) CO-RESO, MOTH - RIFR 4) PDOL WOTH - RIFR	E - ELOGO PLAN Inninani PW Bankj KAMP (D) URE: ROWCHOPYS K. NEW RELD (T) STURE (1) CT AL RINETAL LE WOTH (1) LE WOTH (1)	COALTY L R (Per Bank) ODUBENN GR DI ODUCCASERV, TH ODUCCASERV, TH ODUCCASERV, TH ODUCCASERV, TH ODUCCASERV, TH POCOLOGICASERV (Check ATT) O'LICOERATE (1)	2 2015577404107 1 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2) 20 FEED(2)	BANK ÉROSIÓN C GHOME OR UTTLE C DHOGAYY OR SEVEN POOL: YELOCIT! (1) 210-244 (0-NOP)	≝n [8] -
Aver Right Lotting Downs           Birst Bankj           C         R (Fe Bankj)           C 7 - WIDS>50m (F)           D 8 - 7 - WIDS           D 8 - 7 - WIDS           D 8 - 7 - WIDS           D 8 - 8 - 0.7m [2]           D - w000 = 7]	EHDSIONYRIUNO L R (Man Prode Deforest, sw 2) OC-RESID, PAST 2) OC-RESID, PAST 3) OC-RESID, PAST 2) OC-RESID, PAST 3) OC-RESID, PAST 2) OC-RESID, PAST 2) OC-RESID, PAST 2) OC-POCL, WIGTN - RIFR 01-POCL, WIGTN - RIFR	E - ELOGO PLAN Inninani PW Bankj KAMP (D) URE: ROWCHOPYS K. NEW RELD (T) STURE (1) CT AL RINETAL LE WOTH (1) LE WOTH (1)	COALTY L A (Per Sank) ODUBBAN GA M ODUBBAN GA M ODUBBAN GA M ODUBBAN ODUBBAN ODUBBAN (Check Arth (Check Arth (Check Arth (Check Arth (Check Arth (Check Arth) (Check Arth (Check Arth) (Check Arth)	2 2015577404101 (1 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 4 20 FEED(2) 20 FEED(		≝n [8] -
• Аули Right Looking Dowes <u>RIPE BAR</u> (MCTH L. R. (Par Bank) D. 7-MIDS-Son (H) D. 7-MIDS-Son (H) D. 7-MIDS-Son (H) D. 7-MIDS-Son (H) D. 7-MIDS-Son (H) D. 7-MIDS-Son (H) COMMENTS: 	EEDSIDNYEIINO L R (Man Prode CHOREST, SM (3) CO-RESU, PAST 2) CO-RESU, PAST 3) CO-RESU, PAST 3) CO-RESU, PAST 3) CO-RESU, PAST 4) CO-RESU, PAST (Check 1) CO-POOL WIDTH - RIFR CV-POOL WIDTH - RIFR CV-POOL WIDTH - RIFR	EF - ELOGO PLAN Initiani PW Bankj VARP pj URE ROWCHOPSO K. NEW RELD [1] 573JAE (1] ET AL RHETAL LE WIDTH [1] LE WIDTH [1] LE WIDTH [1]	COALTY L A (Per Bank) ODUBAN GA M ODUBAN GA M ODUBAN GA M ODUBAN ODUBAN ODUBAN POOLATIN OTAGERATE (1) ODUBAN (1) (1) ODUBAN (1) (1) (1) (1) (1) (1) (1) (1)	2 CLASTRALIO D RELO(3) 4 LAGE (4) 1 D RELO(3) 4 LAGE (4) 1 D RELO(3) 4 COLORISE COL	EANY ÉROSION C ONORE OR UTTLE EXEMUSICERATE[2] C H-EANY OR SEVEN POOL: YELOCITE (1) TTTL::-1 RIFFLE: EMIEDOINESS (-1) ONCOEPATE(0)	≝n [8] -
Аулаг Right Looking Dowes <u>Rice Bank</u> L R. (Par Bank) D. (Par Bank)	EFICS:UNVPILINO L R (Mein Prode CARDREST, SW [3] CORDEST, SW [3] CORDEST, SW [3] CORDEST, SW [3] CORDEST, SW [3] CORDEST, SW [3] CORDEST, SW [4] CORDEST, SW [3] CORDEST, SW [4] CORDEST, SW [5] CORDE		(C24) ITY L R (Per Bank) ODUBAN OR II ODUCASERV, TH ODUCASERV, TH ODUCASERV, TH ODUCASERV, TH CONSERV, TH POC, BUCK (Check AUTH OTACORRATE (1) OTACORRATE (1) DECORATE (1) TRATE State Souther) (2)	2 CLASTRALIO D RELO(3) 4 LAGE (4) 1 D RELO(3) 4 LAGE (4) 1 D RELO(3) 4 COLORISE COL	CHARTER CRUTTLE     CHARTER CRUTTLE     CHARTY OR SEVER     POOL:     YELOSITE     (1)     TITENT(2)     RIFFLE:     FMERDEDNESS     CHARTER CRUT     CHARTER	
•Ryser Right Lotking Dowds           Rive Banki           III ** Banki           III ** MDS>5300 [4]           III ** MDS>5300 [4]           III ** MDS>5300 [4]           III ** MDS>5300 [4]           III ** MDS>5400 [4]           III ** MDS>5400 [4]           IIII ** MDS>5400 [4]           IIII ** MDS>5400 [4]           IIII ** MDS=7400 [6]           IIII ** MDS=740 [6]           IIII ** MDS=740 [7]	EHDS:UNPRIMU L R (Mein Priede D.FOREST, SM 3] CORDESID, PASTI 3] CORDESID, PASTI 3] CORDESID, PASTI 3] CORDESID, PASTI 4] CORDESID, PASTI	E- E. OGD PI API Ininani PY Benkj. (AP P) URE ROWCROPS K. NEW RELD [1] STURE (1] ET A ROWCROPS LE WOTH [1] LE WOTH [1] LE WOTH [1] LE W. [0] INTER ENVIL 92.55 STABLE [49.04	COALTY L R (Per Bank) ODUBBAN GR M ODUBBAN GR M ODUBBAN GR M ODUBBAN ODUBBAN COMPANY (Compa Art M O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI)	2 201577404_07 / J D RED(2) / J LAGE (4) 1 2739_071004 [0] 2740 27	EANY ÉROSION C ONORE OR UTTLE EXEMUSICERATE[2] C H-EANY OR SEVEN POOL: YELOCITE (1) TTTL::-1 RIFFLE: EMIEDOINESS (-1) ONCOEPATE(0)	
- Aver Right Lotking Dowes <u>Rive Bark</u> L R (Per Bank) D - WIDS-Ston (H) D - WIDS-Ston (H) D - WIDS-Ston (H) D - WERY NARROW 1- WIDS-KNONE[5] COMMENTS: POOUTGUDE AND REPTLE 1007, DEPT-1 (Check 3) D - 0.4-0.7m [3] D -	EHDS:04/911400 L R (Ment Prode CARDREST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [6] CORDES	TE - ELOGO PLAN AMP DI URE ROWCHOPSO KINEW RELD [1] STURE [1] DI AL RIGHT LE WOTH [2] LE WOTH [2] LE WOTH [2] LE WOTH [2] LE W. [0] AMP DI LE (19, CA DI LE (19	COALTY L R (Per Bank) ODUBBAN GR M ODUBBAN GR M ODUBBAN GR M ODUBBAN ODUBBAN COMPANY (Compa Art M O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI)	2 201577404_07 / J D RED(2) / J LAGE (4) 1 2739_071004 [0] 2740 27		
- Aver Right Looking Dowes <u>Rive Bank</u> L R (Per Bank) D :- WIDS-Son (H) D :- WIDS-Son (H) D :- WIDS-Son (H) D :- WIDS-Son (H) D :- WIDS-FATE 10-50 D :- WIDS-FATE 10-50 D :- WIDS-FATE 10-50 COMMENTS: POOL/GUDE AND APPTLE (WY DSPT-(Check 3) D :- Color (Pool - 2) COMMENTS: D :- CONERALLY > 10 cm/MU D :- GENERALLY > 10 cm/MU D :- GENERALLY > 10 cm/MU	EHDS:04/911400 L R (Ment Prode CARDREST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [5] CORDEST, SM [6] CORDES	TE - ELOGO PLAN AMP DI URE ROWCHOPSO KINEW RELD [1] STURE [1] DI AL RIGHT LE WOTH [2] LE WOTH [2] LE WOTH [2] LE WOTH [2] LE W. [0] AMP DI LE (19, CA DI LE (19	COALTY L R (Per Bank) ODUBBAN GR M ODUBBAN GR M ODUBBAN GR M ODUBBAN ODUBBAN COMPANY (Compa Art M O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI) O'-TORRENTAL(-1 CT-FASTI)	2 201577404_07 / J D RED(2) / J LAGE (4) 1 2739_071004 [0] 2740 27	CHARTER CRUTTLE     CHARTER CRUTTLE     CHARTY OR SEVER     POOL:     YELOSITE     (1)     TITENT(2)     RIFFLE:     FMERDEDNESS     CHARTER CRUT     CHARTER	
•Rever Right Lotking Devices           Rive Banki           I. R. (Per Banki)           □. □', •WIDS-San (H)           □. □', •VERY NARROW 5: 10m (F)           □. □', •VERY NARROW 7: 10500 (H)           □. □, •VERY (H)           □, •VERY (H)           □, •VERY (H)	EEDSIDAYPI(INO) L R (Mean Prode CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [4] CARDREST, SM [5] CARDREST, SM	TE - ELOGO PLAN Infrant PW Benkj. (AAP D) URE ROWCHOPSO KINEW RELD [1] STURE [1] ELO (1) ELO (1	COALTY L R (Per Bank) ODUBBAN GR IN ODUBBAN GR IN ODUBBAN GR IN ODUBBAN GR IN ODUBBAN ODUBBAN (Clean Art Th O'-TORRENTAL(-1 CT-FAST1) O'-TORRENTAL(-1 CT-FAST1	2 2015577844_[0] [1 2016577844[0] [1 201625784 201625789 20162578 201625778 20165778 201677778 20167777778 2016777777777777777777777777777777777777		
Prover Right Lothing Devices           Rive Banki           I. R. (Per Banki)           D. 1. WIDS>5300 [4]           D. 0. COLTAIDE AND FRAME [5]           D. 0. COLTAIDE AND FRAME [5]           D. 0. 0. COLTAIDE AND FRAME [5]           D. 0. 0. 0. COLTAIDE AND FRAME [5]           D. 0. 0. 0. COLTAIDE AND FRAME [7]           D. 0. 0. 0. COLTAIDE AND FRAME [7]           D. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	EEDSIDAYPI(INO) L R (Mean Prode CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [3] CARDREST, SM [4] CARDREST, SM [5] CARDREST, SM	TE - ELOGO PLAN AMP DI URE ROWCHOPSO KINEW RELD [1] STURE [1] DI AL RIGHT LE WOTH [2] LE WOTH [2] LE WOTH [2] LE WOTH [2] LE W. [0] AMP DI LE (19, CA DI LE (19	COALTY L R (Per Bank) ODUBBAN GR IN ODUBBAN GR IN ODUBBAN GR IN ODUBBAN GR IN ODUBBAN ODUBBAN (Clean Art Th O'-TORRENTAL(-1 CT-FAST1) O'-TORRENTAL(-1 CT-FAST1	2 201577404_07 / J D RED(2) / J LAGE (4) 1 2739_071004 [0] 2740 27		

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OA M	lanuar (6th Uodate) - Fish	<ul> <li>September 30, 1969</li> </ul>	
Procedure No.	<u>wgpa_sws-3</u>	Date issued	<u>9-30-89</u>
Revisión No.	6	Date Effective	5-30-89

PC 7 B/9/99

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Figure V-4-5, Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of two sampling locations. This is used to record information for the calculation of the Guartative Habitat Evaluation Index (OHEI).

- AND A ROAD BUD DARAGE	istion Shool - Fich	AHEI SCORE: NOT 42
		0 ath 8/9/9/99 Mary Costs
	<u> </u>	Car CWR /FIG
	ubserve TYPE SALES; Check of types press	
TYPE POOL RIFFLE	FOOL AIFFLE SUBST	NATE QUALITY SUBSTRATE SCORE: 177
	O-GRAVEL [7] Sutatata Oriata (	
		RIPHRAP DI ASLTHEAVY POTOSILT HODERLTE (1)
		HARDPAN (0) O. SLT NORMAL (0) D. SLT FREE (1)
	O DETRITUSCIOSMOSTONE (0)	
		ZO-EXTENSIVE [ Z]O-MODERATE[ 1]
TOTAL MUMBER OF SUBSTRATE TY	PES: Do 4 (2) Decover PRES [-2]	
NOTE: Omore station the company to	on print-sport at, score is based on result inco	erenet)
COMMENTS		
		COVER SCORE:
ZI INSTREAM COVER		AMOUNTICASES ONLY One of
	± All That Apply)	check 2 and 4 VERACE)
O UNDERCUT BANKS [1]	ZFOEEP POOLS [2] D-OXBOWS [	I; D - EXTENSIVE - 79% (11)
D OVERHANGING VEGETATION [1]		ACROPHYTES (1) C - MODERATE 25-75% (7)
HALLOWS IN SLOW WATER (		YOODY DEBRIS (100, SPARSE 5-25% (3)
<i>F</i>		D. NEARLY ABSENT = 5%(1)
COMMENTS:		
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	BOM TONE PER Category OR sheet 2 and A	
SPALOSITY DEVELOPMEN		<u>MOOREATIONS (0))/55</u>
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D MCCENATE[3] D GOOD[5]		2 O - RELOCATION D - ISLANDS CI-CANOPY REMOVABILIE LEVEED
JE LOW Z DE SAR DI	AC VECONEMINE DI OF FOM IN	CI. CANOPY NEWSYADED LEVEED CI. DREEKSANG CI. BANK SHAPING
D-NONE[1] C-PCOR[1]	D - RECENT GA NO	D - ONE SIDE CHANNEL MODIFICATIONS
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A GID A DIA N TONG LWD DANK FRD	SIDN . (check CHE but out both wiches) I a	
	SIGH - (check OKE toor par bank or check 2 a	ni LVENAGE part (and) RIPARIAN: []]] -
"River Racine Lansang Downstream"		
- Aver Rate Looking Commentees" <u>BIOLOGIAN WIDTH</u> <u>ÉA</u>	OSTOWNUNDER - PLOOD PLAIN CUALITY	BANK ESICSION
- Aver Right Lasung Downstream" <u>BIOLANIAN WIGTH</u> <u>ÉA</u> C. R. (Per Bank) L. F.	OSTOWRUNDES - ELCOD PLAIN CUALITY 1. Dices Prederainent Per Bank) U. R. (Per Ba	BANK ERICSION MAI
*Aver Right Labors Consumers* <u>Вілька україн</u> с. R. (Per Bank) L. F о о - мір (с. 500 (4)	DSDYRRUNDFE - <u>BLOOD PLAIN SURLITY</u> 1. (Note Predoctinent Per Bank), L. R. (Per Bu 5-FOREST, SWAMP (D), DD-ORBAN	ELLER BANK ERISION VAI CANNUSTRALIJI DI CANCAE CALITTLE [1]
• Акие Кара (доцино Commercen) <u>Починана (1971)</u>	<u>DSDY RUYOFF - FLOOD PLAIN QUALITY</u> 1. (Noti Predominant Per Bank) U.R. (Per Bi 3. FOREST, SYMMP (D) D.D.GRBUN 3. DPSN FASTURE/ ROWCROPUL DOSHRUB	ELLER BANK ERISION VAI CANNUSTRALIJI DI CANCAE CALITTLE [1]
•Ане Ката (дома) Сонцина» <u>Никанан ундать</u> <u>Éй</u> с R (Me Bank) L / С D - инфбь556 [4] С D - инфбь556 [4] С D - инфбелате 16-56 [5] С D - инфбелате 16-56 [5] С D - инфбелате 16-56 [5]	DSDYWR/YOFF - FLOOD PLAIN CUALITY 1. (Moth Predominant Per Bank) U. R. (Per Ba - FOREST, SWAMP (D) DOURBAN - COMMING AND PLANT (D) SHRAB & RESID., PARK, NEW RELD (1) O'C-COMSE & RESID., PARK, NEW RELD (1) O'C-COMSE	BANK ERICEN           BANK ERICEN           VA)           CR MOUSTRALID           CR OLO RELIC(2)           CR OLO RELIC(2)           CR OLO RELIC(2)           CR DIARDACION           RY, TELLAGE (1)
• Акуа Кара (до цар Сонтанала) <u>на кака (до 1971)</u>	DSDYWR/YOFF - FLOOD PLAIN CUALITY 1. (Moth Predominant Per Bank) U. R. (Per Ba - FOREST, SWAMP (D) DOURBAN - COMMING AND PLANT (D) SHRAB & RESID., PARK, NEW RELD (1) O'C-COMSE & RESID., PARK, NEW RELD (1) O'C-COMSE	ELLER BANK SHOSION OR HOUSTRALIDI DI CHIONE OR LITTLE [1] OR OLO RELOZI JECHNOCOSALTELIX
"Aver Retry Looking Commerce" <u>Bioxanany Witt:</u> ÉB           C R (Per Bank)         L F           D - web(E-Soc) [4]         D - web(E-Soc) [4]	DSDYWR/YOFF - FLOOD PLAIN CUALITY 1. (Moth Predominant Per Bank) U. R. (Per Ba - FOREST, SWAMP (D) DOURBAN - COMMING AND PLANT (D) SHRAB & RESID., PARK, NEW RELD (1) O'C-COMSE & RESID., PARK, NEW RELD (1) O'C-COMSE	
"Aver Rock (Josung Commerce" <u>Biotanian (WITH</u> ÉA C R (Per Bank) L F D D - WIGE-Stop (4) D D - WIGE EANTE 10-S0 (5) D D - WIGE EANTE 10-S0 (5) D D - WIGE EANTE 10-S0 (7) D D - WIGE EANTE 10-S0 (7) D D - WIGE (7) D D - WIGE (7) COMMENTS:	DSDY NUY NUY ST - FLOOD PLAIN CUALITY L DIVEN Predominant Per Bunk) L R (Per B SFOREST, SYAMP [] DOURBAN SOPEN PASTURE/ ROWCROPUL DO SHRUB RESID, PARK, NEW PELD [1] COORDE SFENCED PASTURE [1] CO-RANKO	
"Aver Rock (Josung Commerce" <u>HIPARIAN WITH</u> <u>ÉR</u> C R (Per Bank) L F D D WOGLSSON [4] D D WOGLSS	DSDYNUVOFI - PLOOD PLAIN CUALITY 1. [Note Prodoction Per Bank) L. R. (Per Bi 2. FOREST, SWAMP [0] DOSHRUB 2. OPEN PASTURE/ ROWCROPPI DOSHRUB 2. RESD., PARK, NEW RELD [1] DOSCOMSE 2. FENCED PASTURE [1] DOSCOMSE 2. RESPONDED TOT	
*Aver Rock (Losury Commerce) <u>HIPARIAN WITH</u> <u>EA</u> C A (Per Bank) L F D D**MG5-Son [4] D D**MG5-Son	DSDYNUVOFI - PLOOD PLAIN CUALITY 1. [Note Prodoction Per Bank) L. R. (Per Bi 2. FOREST, SWAMP [0] DOSHRUB 2. OPEN PASTURE/ ROWCROPPI DOSHRUB 2. RESD., PARK, NEW RELD [1] DOSCOMSE 2. FENCED PASTURE [1] DOSCOMSE 2. RESPONDED TOT	
*Aver Rote Labora Comments <u>BioAnian WITH:</u> C R (Per Bank) C R (Per Bank) D :- WDE-Sone [4] D :- WDE[6] COMMENTS: POOL/02150E AND REFELLATION OUT <u>May DEETER</u> [6]	DSTONNELVOFF - FLOOD PLAIN CUALITY 1. (Hors Predorstrant Per Bunk) L. R. (Per Bi 2. FOREST, SWAMP [0] DOSHRUB 2. OPEN PASTURE/ ROWCROPPI DOSHRUB 2. RESID., PARK, NEW PELD [1] DOSHRUB 3. RESID., PARK, NEW PELD [1] DOSHRUB 3. RESID., PARK, NEW PELD	
"Aver Rote Labora Commerce" <u>Biotanan Wilth:</u> <u>48</u> с R (Per Bank) L F D - WODE-Soc [4] D - WODE-Soc [4] D - WODE Soc [4] D - WODE RATE 10-So [5] D - WODE RATE 10-So [5] D - WODE RATE 10-So [5] D - WODE RATE 10-So [6] D - NONE[6] COMMENTS: <u>PODUCISEE AND RIPF LEMUN Of</u> an <u>May DEEM:</u> [2: Are 1) D - FOOL		
"Aver Retric Labourg Commerces" <u>Biotenau W(DT)</u> <u>ER</u> C R (Per Bank) L F D D - WOGLSton (4) D - WO		
"Rever Lossing Commerce"           Biostriany WIDTL:         ÉR           C R (Rev Bank)         L R           D D'-MRDE-Sob [4]         D D'-MRDE-Sob [4]           D D'-MRDE-Sob [4]         D P-MOL           D D'-MRDE-Sob [4]         D P-POUL	DSDV/#UV025         FLOOD PLAIN CUALITY           L Divers Predominant Per Buvis)         L R (Per Bi D-rOREST, SWAMP [3]         D-ORBUN           DOSEN PASTURE/ ROWCROP[3]         D-ORBUN         D-ORBUN           POSEN PASTURE/ ROWCROP[3]         D-ORBUN         D-ORBUN           POSEN PASTURE [1]         D-ORBUN         D-ORBUN           POSENT COT         CO-COMBE         D-ORBUN           POSENT COT         CO-COMBE         CO-COMBE           POSENT COT         CO-CO-COMBE         CO-CO-COMBE	
"Aver Retre Leasing Commerce"           BID ARIAN WITTL:         ÉB           C R (Per Bank)         L F           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D - WODE Stop [4]           D D - WODE Stop [4]         D - WODE Stop [4]           D - WODE Stop [4]         D - WODE Stop [4]           D - WODE Stop [4]         D - POOL 'Stop [4]           D - WODE Stop [4]         D - POOL 'Stop [4]           D - WODE Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]	DSTOMMUNOFIC         FLOOD PLAIN CUALITY           1         (Hots Predoculant Pre Bunk)         L. R. (Pre Bunk)           2-POREST, SWAMP [D]         DOURBAN           2-DORAN ASTURE ROWCROPPI         DOURBAN           2-DORAN ASTURE ROWCROPPI         DOURBAN           2-DORAN ASTURE (NOT COURSE         DOURBAN           2-FENCED PASTURE [I]         DO-COMBE           2-TOSENCT COT         COMPANY	
"Rever Lossing Commerce"           Biostriany WIDTL:         ÉR           C R (Rev Bank)         L R           D D'-MRDE-Sob [4]         D D'-MRDE-Sob [4]           D D'-MRDE-Sob [4]         D P-MOL           D D'-MRDE-Sob [4]         D P-POUL	DSTOMMUNOFIC         FLOOD PLAIN CUALITY           1         (Hots Predoculant Pre Bunk)         L. R. (Pre Bunk)           2-POREST, SWAMP [D]         DOURBAN           2-DORAN ASTURE ROWCROPPI         DOURBAN           2-DORAN ASTURE ROWCROPPI         DOURBAN           2-DORAN ASTURE (NOT COURSE         DOURBAN           2-FENCED PASTURE [I]         DO-COMBE           2-TOSENCT COT         COMPANY	
"Aver Retre Leasing Commerce"           BID ARIAN WITTL:         ÉB           C R (Per Bank)         L F           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D D - WODE Stop [4]           D D - WODE Stop [4]         D - WODE Stop [4]           D D - WODE Stop [4]         D - WODE Stop [4]           D - WODE Stop [4]         D - WODE Stop [4]           D - WODE Stop [4]         D - POOL 'Stop [4]           D - WODE Stop [4]         D - POOL 'Stop [4]           D - WODE Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]           D - Stop [4]         D - POOL 'Stop [4]	DSTOMMUNOFIC         FLOOD PLAIN CUALITY           1         (Hots Predoculant Pre Bunk)         L. R. (Pre Bunk)           2-POREST, SWAMP [D]         DOURBAN           2-DORAN ASTURE ROWCROPPI         DOURBAN           2-DORAN ASTURE ROWCROPPI         DOURBAN           2-DORAN ASTURE (NOT COURSE         DOURBAN           2-FENCED PASTURE [I]         DO-COMBE           2-TOSENCT COT         COMPANY	
"Rever Lossing Commerce"           Biostrian W1711         Éñ           L         R. (Rever Lossing Commerce")           D. 21 - W10Ex Scin [4]         L           D. 21 - W10Ex Scin [4]         D. 21 - W10Ex Scin [4]           D. 21 - W10Ex Scin [4]         D. 21 - W10Ex Scin [4]           D. 21 - W10Ex Scin [4]         D. 21 - W10Ex Scin [4]           D. 21 - W10Ex Scin [4]         D. 21 - W10Ex Scin [4]           D. 21 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 20 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 40 - W10Ex Scin [4]         D. 40 - W10Ex Scin [4]           D. 40 - W10Ex Scin [4]         D. 40	DSTOY NUMPEL         PLOOD PLAIN CUBLITY           1         [Netsi Predoculant Per Bunk)         L R (Per Bink)           2-POREST, SWAMP [D]         DOWRAM           2-OPEN PASTURE/ ROWCROPPI DOSHRAR         DOCOME           2-POREST, SWAMP [D]         DOWRAM           2-OPEN PASTURE/ ROWCROPPI DOSHRAR         DOCOME           2-PORED PASTURE [I]         DOCOME           2-MORDOC POT         COMANNE	
•Rever Repression Commension           BIDERIAN WIDTL:         ÉB           C. R. (Per Bank)         L. F.           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - MAGE Socie [4]           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1           DID - MAGE Socie [4]         DID - POOL 1	DSTONENUNOFF         FLOOD PLAIN CLIALITY           1. [Netsi Predersimant Per Bank)         L. R. (Per Bank)           2-POREST, SWAMP [D]         DOWBANK           2-DOWBANK, NEW PRELD [N]         DOUCOMBE           2-PORENT, SWAMP [D]         DOWBANK           2-DOWBANK, NEW PRELD [N]         DOUCOMBE           2-PORENT, PREMIEW PRELD [N]         DOUCOMBE           2-PORENT, SWAMP [D]         DOWBANK           2-PORENT, PREMIEW PRELD [N]         DOUCOMBE           2-PORENT, PREMIEW PRELEW [N]         DOUCOMBE           2-PORENT (NEW PRELEW)         DOUCOMBE           2-PORENT (N	
"Aver Repet Lanuary Commerce"           BIOLERIAN WITTL:         ÉB           C. R. (Per Bank)         L. F.           D.D. WODE-Son [4]         D.D. WODE-Son [4]           D.D. WODE-Son [4]         D.P. WODE-Son [4]           D.D. WODE-Son [4]         D.P. WODE-Son [4]           D.O. UNITER         D.P. WODE-Son [4]           D.D. WODE-Son [4]         D.P. POOL           D.D. WODE-Son [4]         D.P. POOL           D.D. WODE-Son [4]         D.P. POOL           D. WODE-SON [4]         D.P. POOL           D. GENE-SON [4]         D. GENE-SON [4]           D. GENE-SON [4]         D.GENE-SON [4]           D. GENE-SON [4]         D.GENE-SON [4]           D. GENE-SON [4]         P. GENE-SON [4]	DSTOY NUMPEL         PLOOD PLAIN CUBLITY           1         [Netsi Predoculant Per Bunk)         L R (Per Bink)           2-POREST, SWAMP [D]         DOWRAM           2-OPEN PASTURE/ ROWCROPPI DOSHRAR         DOCOME           2-POREST, SWAMP [D]         DOWRAM           2-OPEN PASTURE/ ROWCROPPI DOSHRAR         DOCOME           2-PORED PASTURE [I]         DOCOME           2-MORDOC POT         COMANNE	
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"Aver Retre Leasing Commerce"           BID ARIAN WITTL:         ÉR           C. R. (Re Bank)         L. F.           D. D. MODE-Socie[4]         D. D. MODE-Socie[4]           D. D. MODE[6]         D. D. MODE[6]           COMMENTS:	DSTONENUNOFF         FLOOD PLAIN CLIALITY           1. [Netsi Predersimant Per Bank)         L. R. (Per Bi DORBAN           2-POREST, SWAMP [D]         DOURBAN           2-DEAN ASTURE/ ROWCROPHILD COMBAN         DOCOMBE           2-DEAN ASTURE/ ROWCROPHILD COMBAN         COCOMBE           2-POREN/REW RELD[1]         COCOMBE           2-POREN/REW RELEWINE         COCOMBE           2-POREN/REW RELEWINE         COCOMBE           2-POREN/REVENING         COCOMBE <td></td>	
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Revision No.	<u>6</u>	Date Effective	<u>5-30-89</u>

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Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of test sampling locations. This is used to record information for the calculation of the

Opalitative Habitat Evaluation Index (OHEI).



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OA Manual (6th Wodale) - Fish - September 30, 1989 Procedure No. <u>WOPA-SWS-3</u> Date Issued

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<u>9-20-89</u> 9-30-89

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of lish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

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Proceedure No. <u>WOPA-SWS-3</u> Date Issued <u>2:30-89</u> Revision No. <u> </u>	QA Manual (6th Updale) – Frsh. – September 30, 1989						
		<u>WOPA-SWS-3</u> 6			PC 5 8/7/1		

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Oualitative Habitat Evaluation Index (OHEI).

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G.3MG32FATE 16.56 (3)       G.3CAEN PARTICLE ROWCROPPOLID SAMULION OLD RELOC:       Table According 2         G.0MARROW 1-5m [1]       C.B. RESID, PARK NEW FIELD [1]       D.D.COMERN, TILLAGE [1]       D.D. HEAVY OR SEVERE         M.C. VERY MARROW 1-5m [1]       C.B. RESID, PARK NEW FIELD [1]       D.D.COMERN, TILLAGE [1]       D.D. HEAVY OR SEVERE         M.C. VERY MARROW 1-5m [1]       C.B. RESID, PARK NEW FIELD [1]       D.D. COMERN, TILLAGE [1]       D.D. HEAVY OR SEVERE         M.C. VERY MARROW 1-5m [1]       C.B. RESID, PARK NEW FIELD [1]       D.D. MINING CONSTRUCTION [0]       D.D. HEAVY OR SEVERE         M.C. VERY MARROW 1-5m [1]       C.B. RESID, PARK NEW FIELD [1]       D.D. MINING CONSTRUCTION [0]       D.M. HEAVY OR SEVERE         ODE COLOR LITY       M.G. SERALTY       M.G. SERALTY       M.G. SERALTY       P.C. MARKOW 1- K. SERALTY         COLL COLOR LITY       M.S. SERALTY       M.S. SERALTY       M.S. SERALTY       M.G. STABLE [1]       D. HEAVY OR SERATE [1]         C.S. STABLE [10, COLW MOTH - RIFFLE WIDTH [2]       D.T. SLOW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, MARKOW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]       D.M. STABLE [10, COLW [1]<	T. SMANP (7) COURSAN OR MOUSTRIALIDE D. ONONE OF LT	TLE DI
0.01-NARROW 5-tom (2)       0.11, RESID, PARKINEW FIELD [1]       0.00-CONSERV. TULIAGE [1]       0.00	ASTURE ROWCROPHI DO SHRUE ON OLD ALLOZ	
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O)C:NONE[0]         POOL:           COMMENTS:         POOL:           COLOCIDE AND RIFFLEMEN QUALITY         POOL:           VAL. DETTLICINEARY         MEEPHCLODY           D + 10:[5]         (Check 1)           Check 10         (Check 1)           D + 10:[5]         (Check 1)           D + 10:[6]         (Check 1)           D + 10:[7]         D + 10:[7]           D + 20:[7]         D + 10:[7]           D + 20:[7]         D + 10:[7]           D + 20:[7]         D + 20:[7]           Counsents         [7]           Counsents         [8]           D - 20:[7]         D + 20:[7]           D - 20:[7]		
COMARENTS:     POOL:       100CL-GLDE AND RIFFLEMEIN OUXLITT     POOL:       VAR. DETU_[Clark2.3]     MGEPHO. DD:       0.5.17.10[3]     Clark2.13       0.5.17.10[3]     Clark2.14       0.5.17.11     Clark2.14       1.5.17.11     Clark2.14       1.5.17.11     Clark2.		
OCL-GLDE AND REFELENCE QUALTY         POOL:           VAX. DETTAL [C3:ex2 3)         MCEPHOL ODY           VAX. DETTAL [C3:ex2 3)         MCEPHOL ODY           VAX. DETTAL [C3:ex2 3)         (C0:ex2 43 This Apply)           DC3:ex101         C3:ex101           DC3:ex101         C3:ex102           DC3:ex101         C3:ex102           DC3:ex101         C3:ex102           DC3:ex101         C3:ex102           DC3:ex111         C3:ex102           DC3:ex111         C3:ex102           DC3:ex111         C3:ex102           DC3:ex111         C3:ex102           DC3:ex111         C3:ex102           DC3:ex111         C3:ex102           DC3		
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D = 1.m (b)         (Check 1)         (Check 3)		- 3
C::::::::::::::::::::::::::::::::::::		
Carbon         Carbon<		
C + 0 + m]1]         C + POQ, WCC7X + RUFALE W, K0         C + SLOVÉRATÉ [1]         C + INTERNUTTENT[2]           D==0.2m (Poxi + 6]         C + SLOW [1]         C + SLOW [1]         RIFFLE:           FELEZEI (Poxi + 6]         C + SLOW SUBSTRATE         PIER ENDITENTENT[2]         RIFFLE:           FELEZEI (N DEPTH)         PIER ENDITENTION SUBSTRATE         PIER ENDITENTENT[2]         RIFFLE:           1- GEN ENALY > 10 4m, MAX > 50 [4]         STABLE [ in g, Cobbin, Boulden] [2]         D EXTENSIVE [-1], BOODERATE[0]           0- GEN ENALY > 10 4m, MAX > 50 [4]         D-MCO, STABLE [ in g, Poil Gravel] [1]         D LONSTABLE (Gravel, Sand) [2]         D-NONELT           GENERALLY > 10 cm, MAX > 50 [4]         D-UNSTABLE (Gravel, Sand) [2]         D-NONELT         D-NONELT           GENERALLY > 10 cm, MAX > 50 [4]         D-UNSTABLE (Gravel, Sand) [2]         D-NONELT		
Dc0.2m (Apple - 0) COUNSTABLE (CREW) SUBSTRATE DC0.2m (Apple - 0) COUNSTABLE (CREW) SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE DC0.2m (Apple - 0) PICTLEROW, SUBSTRATE PICTLEROW,		(51004C)
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ESILE/FILX     DEST EVALUATION     RIFFLE:       1- GENERALLY > 10 dem (MAX> 50 [4]     STABLE (a.g. Cabble, Excitent [3]     DEXTENSIVE [-1], MAXODERATE(0)       0- GENERALLY > 10 dem (1)     D-MCO, STABLE (a.g. Pag Gravel) [1]     D-LONELT       GENERALLY > 10 dem (1)     D-UNISTABLE (Gravel) Sand) (2)     D-NONELT       I- GENERALY > 50 cm (Adde - 0)     D-UNISTABLE (Gravel) Sand) (2)     D-NONELT	ostow.[1]	
Image: State (V)         Discret(V)         Discrete (V) <thdiscrete (v)<="" td=""><td></td><td></td></thdiscrete>		
D-GEN EAXLY >10 cm, MAX>50 [c]         CTABLE   a.g., Cabble, Jacultani [2]         D-EXTENSIVE [-1], JEXCOERATE(0]           D-GEN FRALLY >10 cm, MAX>50 [3]         D-MCO, \$TABLE (a.g., Pear Grawn) [1]         D-EXTENSIVE [-1], JEXCOERATE(0]           CEN FRALLY >10 cm, MAX>50 [3]         D-MCO, \$TABLE (a.g., Pear Grawn) [1]         D-EXTENSIVE [-1], JEXCOERATE(0]           K.GEN ERALLY S-10 cm [1]         D-UNSTABLE (Grawn, Sand) [2]         D-MOR RIFF           I - GEN ERALLY < 5 cm [Addu = 0]		#   <b>3</b>
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1 - GENÉRALLY < Sem (Adia = 0)		
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Procedure No. Revision No	<u>WOPA-SWS-1</u>	Date Issued Date Effective	<u>9-20-89</u> <u>9-30-99</u>	8/7/59

Figure V-4-5. Front side of the Onio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

Sream T		D;	ne <u>8/7/41 Revel Coon</u>	
Immon VILEAD Cat	1 T	-	Crew F38 / WR	
1) SUBSTRATE (Chekt ONL TTwo	Summer TYPE CORES: Court	ر ومحمدهم وسروا الد :		
TYPE POOL REFE		-Di -m.J ka	SUBSTRATE SCORE:	
	00-GRAVEL [7] 🔼 👝 🏜	Andrata Orbita (Chard	ef) <u>Sh Cover (Check Oner</u> Life	-
		INESTONE 1170-RIP/R	AP (4 OST HEAVY   21 SUT MODERATE (-	11
		пць(1) денье	MAN (OL D - SILT NORMAL (OL D - SLT FREE (15	
		AND STONE OF	Extern Of Embeddings (Check One)	
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	est All Thei Apply)		check 2 and AVEAAGE)	
D-UNDERGUT BANKS [1]	T-DEEP POOLS [2]	2 -0x80wrs(1)	0-EXTENSIVE - 75% [11]	
R-OVERHANSING VEGETATION			OPHYTES (1. SP MODERATE 25-75% [7]	
CONTRACTORS IN SLOW WATERS	[1] D-800L0EPS [1]	A cross our mode	Y DEBRIS (110 - SPARSE 5-254 D)	
			. CI - NEARLY ABSENT + 3%[1]	
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O-NONE[1] J-2008[1	I D RECENT OR NO	0	- DREDCING CL - BANK SHAPING	
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<b>ANCNE</b> [0]				
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<u>y ( narali (Check I)</u>	MORPHOLDGY			
F>1m 6	(Check 1)	(Church AUT)		
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	MOTH - RIFFLE WIDTH (1)	01-5457[1]		
	WICTH « RIFFL S W. (0)	O-HODERATE(1)	D'INTERMITTENT[3]	
		C-SLOW [1]		
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<u>ir e</u> wyy d <u>erta</u>	PIEFI F-RUN SUB		RIFFLE:	•
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+ GENERALLY 5+0 em,MAX≥53[3] • GENERALLY 5+10 em [1]	D-UNSTARLE (GI			1
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Figure V-4-5, Front side of the Ohio EPA Site Description Sheat for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (OHEI).

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B-OVERHANGING V		ELACOTWADS [1]		WANTES  1] O. MODERATE 25-754	
C SHALLOWS (IN SL	CWWATEAU(		Arrest weare	Y DEBAIS [1] F. FRANSE 1-25% [3]	
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Presidents.				-	
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			A HOOEPATE [2] CI-		
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pilosájan (voľti)           L	EPOCOL           L         P           L         P           L         P           DO-FORE         DO-FORE           DO-FORE         DO-FERCE           W1-5m [1]         DO-FERCE           VILERUM GUALITY         (Const           V         MOOL           V         MOOL           V         POOL           W1-5m [1]         O-FOOL           W1-700L         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH	(B B B B	<u>Arr Clam ITY</u> (A) L A (Per Bank) (ДСУВАН ОЛ Ю (D) SAMAUS ON ON IN (D) COCONSENV. TH OCHMINGCONS (CHAS ASTN (CHAS ASTN (CHAS ASTN) O'HODERATE(1) (A) STATE COMM, BOASH(1) (A) PAGE CLAMA(1) (A)		
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PIDAÁJAN (VOTH           L	EPOCOL           L         P           L         P           L         P           DO-FORE         DO-FORE           DO-FORE         DO-FERCE           W1-5m [1]         DO-FERCE           VILERUM GUALITY         (Const           V         MOOL           V         MOOL           V         POOL           W1-5m [1]         O-FOOL           W1-700L         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH           C-POOL         WIDTH	(B B B B	Ant Diam ITY (A) L & (Per Bank) (A) (VARAN OR M P(0) D.S.MAUS OR ON (D.COMSENV. TH OCHMINGCONSENV. TH OCHMINGCONSENV. TH OCHMINGCONSENV. TH (CHMINGCONSENV. TH (CHMINGCONSENV. TH (CHMINGCONSENV. TH (CHMINGCONSENV. TH OCHMINGCONSENV. TH	SANK EBOSION           OUSTRALIOI - O ONCHE ORLITTA           LO PELO(2)         D PLODERATEIS           LLAGE [1;         O ONCHE ORLITTA           LLAGE [1;         O ONCHE ORLITTA           ILAGE [1;         O ONEAVY OR SEV           ITADUCTION [0]         POOL           IEBLE [2; JEBENT VELOCITY         POOL           IEBLE [2; JEBENT VELOCITY         POOL           ILAGE [1;         O -EDDIES[1]           O -INTERNETENTI-2)         RIFFLE           RIFFLE         RIFFLE           SCHITENS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI           OLOWERS 1-2 [1]         O MODERATEI	

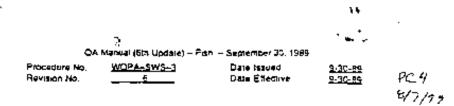


Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Qualitative Habitat Evaluation Index (QHEI).

Chio E24 Site Description Shoet - Fich	7
1) SUB STRATE (Check Che, YTwo Substant TYPE #CATES; Check of Stars present);	
TYDE POOL RIFLE POOL RUFLE SUBSTRATE QUALTY SUBSTRATE SCO OC-ROFLASSASSING	RE: 🖂 -
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O-OVERHANGING VEGETATION[1] A-ROOTWADS[1] O AOUATIC MACADINITES (1) O- MODERATE 25-73	
GASHALLOWS (IN SLOW WATER) [1] O COLLOERS [1] GALOGS OR WOODY DEBAIS [1] GALARSE 3-23M (2) D NEARLY ASSENT.	
COMPENTS:	
3) CHANNEL KORPHOLOGT: (CALCK ONLY One PER Gruppery DR sheets 2 and AVERAGE) CHANN	EL; [][]
SUNDSITY DEVELOPMENT CHANNELIZATION STABLIC MCCHECATIONS/OTHER	
D NONE (4) O EXCELLENT (7) O NONE (6) O MONTH (7) O MONTH (6) O MONTH	
D - MODERATE (1) O - COOD (2) O - RECOVERED (4) (5 - MODERATE (7) O - RELOCATION O - ISLANDS SK. 10W (2) (5 - FAIR (2) (2) - RECOVERING (2) O - LOW (3) O - CANOPY MEMOVAL (5 - LEVEED	
D- NONE (1) D- POOR (1) D- RECENT OR NO D- DAREDGING D- BANK SHA	•
RECOVERY [I] D-CNE SIDE CHANNEL MODERCA	TIONS
CONNENTS:	
4) RIPATRAN ZONE AND MARK EROSION - (rivers ONE box per bank or church 2 and AVERAGE per hand) RIPARIA	":[]]'
*River Right Looking Downstream" <u>entralian with E905701/Rundfe</u> - <u>PLOCO PLAN (SJALITY</u> <u>SAMK EROSION</u>	-
L.R. (Per Bank) L.R. (Mess Predominant Per Bank) L.R. (Per Bank)	•
O DI WIDE-SOM (K) OD FOREST, SWANP PJ ZEO URBAN CA MONSTRIAN(M) O DIVONE CALUT C.D. MCCERATE 1959 77 OD OPEN MASTURE ROWCROPIDI CIDI SHRAB DA CLO PELDIZI NE ASLACIDERATE (2	
C.D. MCCERATE 1950 (F) C.D. OFEN PASTURE ROWCROP[0] C.D. SHRAB DR CLD PELD[2] YE/DE WORKATE (2 C.D. JAARROW'S-10m (2) D. OF RESID_PARK, NEW FIELD [1] D.D. CONSERV. TELLAGE [1] D. D.HEAVY OR SE	
NOT VERY NARROW I-Sm (I) CO-FENCED PASTURE (I) DOMENDICONSTRUCTION (I)	
COMMENTS	S S
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	- FOOLO]
D 0.4m[1] UT-POOL WOTH & REFLE W. MI OT MCOGATE (1) OT WTEAMOTTENT[2]	
D=+02m (*001-0) COMVENTS	
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<u>ALEST ENGLIN DENTAL</u>	
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to Construct Managements 1 577 Show () SPERIT SHOW	
f; Gradient (feetunite); 1.5.7} xPOOL XREFLE; <u>54</u> xhore	<u>4</u> .

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9-20-09

QA	Manual (6th Updale) -	Fah – September 30, 1985
Procedure No. Revision No	WOPA-SWS-3	Date issued Date Effective

Figure V-4-5. Front side of the Ohio EPA Site Description Sheet for evaluating the geographical and physical characteristics of fish sampling locations. This is used to record information for the calculation of the Obalitative Habitat Evaluation Index (OHEI).



E-W 4520

### Table \_\_\_\_\_ MACROINVERTEBRATE MATRIX SCORES FROM AUGUST 1999

MAC	ROINVERTEBRATE MATE	RIX SCORE	S FROM A	UGUST 19	99															
						%														
						-	ontributi	Ratio												
			Family	Ratio of	Ratio of				dder/ T				Ratio of							
		Taxa	Biotic	Scraper/F			ominant		shred N				Shredder+1/Nonshredde				Nonshr			
Site	Waterbody	Richness		Iterer	midae			EPT Index der		Collected		Ratio of EPT+1/Chironomidae+1	+1	Scrapers	Filterers	Shredders	dders	EPT	Chiro	onomids
PC1	Pigeon Creek	13		(12/0)		0.62	0.26		0.067	127	13									
PC2		14		(0/6)		0.07	0.27		0.033	105	0.142857143	0.090909091	0.05882352	9 0	e	6 2	5	0	3	43
PC3		14			1	6.8	0.58	3	0.05	155										
PC4	Pigeon Creek	7		(0/73)		20	0.61	2 (0/60		119	0.013513514		0.01639344		73	3				
PC5	Pigeon Creek	13				17	0.71	4 (0/60	/	130			0.01639344	3						
PC6	Pigeon Creek	16				0.25	0.22	2	0.2	141							_	_		
PC7	Pigeon Creek	11			3	0.21	0.45		0.017	127	0.153846154	0.225806452			12		6		13	61
PC8	Pigeon Creek	12		(0/77)		3	0.5		0.067	155	0.012820513				77		6		86	29
PC9		12		(0/1)	_	0.23	0.25		0.083	116	0.5				1		6		7	31
PC1		11			3	6.1	0.48		0.033	129	0.140625				63	3 2	6	0	92	15
PC1		8		(0/75)	_	7.9	0.49	2 (0/60		144	0.013157895		0.01639344							
PC1		13				2.4	0.35	3 (0/60		123		0 70 / 10 700 /	0.01639344			ı 1			-	
PC1		12				2.8	0.34		0.017	140	0.32	2.724137931	0.03278688	5 7	24	+ 1	6	0	78	28
PC1		15				13	0.37		0.033	118										
PC1		11			9 (3/0)		0.65		0.016	129	0.404040404	4 050004570	0.04040000					~	40	40
LC1	Locust Creek	12				1.1	0.16		0.033	115	0.424242424	1.052631579	0.04918032	8 13	32	2 2	6	0	19	18
LC2 LP1	Locust Creek	16 13				0.023	0.21 0.45	1 3	0.5 0.05	174 145	0.164383562	1.571428571	0.0655737	7 11	72	2 3	6	~	32	20
LP1 LP2	Little Pigeon Creek	13				1.6		3	0.05		0.164383562	1.052631579		/ 11	12	2 3	0	0	32	20
BC1	Little Pigeon Creek Bluegrass Creek					2.2 1.7	0.39 0.35	3 1 (0/60		145 115	0.470470500			3 8	50	) 0	6	~	40	0.4
BC1 BC2		11 15				0.057	0.35		) 0.017	115	0.176470588 1.043478261	1.64	0.01639344	3 8	50	) 0	0	0	40	24
BC2 BC3		15				1.7	0.4	2 3	0.017	185	1.043478261	1.692307692	0.0655737	7 26	ç	9 3	6	^	65	38
WD1	Bluegrass Creek Weinsheimer Ditch	15				3.4	0.3		0.033	147	1.75		0.0655737				6		48	30 14
SD1	Stollberg Ditch	9	7.7			0.04	0.3		0.033	147	1.75	3.20000007	0.04910032	0		2	0	0	40	14
UN1	Unnamed Tributary	9 16			2 3 (0/5)	0.04	0.41	0	0.017	121										
SC1	Squaw Creek	10		(0/61)	5 (0/5)	1.6	0.41	2	0.05	138	0.016129032		0.0655737	7 0	61	I 3	6	0	32	20
BG1	Big Creek	14				0.36	0.23		0.03	135	0.235294118		0.03278688		16		6		12	33
BG1 BG2		14				0.63	0.28	2 (0/60		121	0.235294118	0.582552941			25		6		12	19
SF1	Smith Fork	10	5.6			1.5	0.21	2 (0/60		131	0.45				39		6		35	23
SF2	Smith Fork	14		(20/0)	•	0.38	0.13	2 (0/60		129	21		0.01639344		00		6		13	34
SF3	Smith Fork	14			1	2.4	0.21	2 (0/00	0.33	120	21		0.01000044	5 20	, c	, 0	0	0	15	54
WF1		18				2.2	0.3	3 (0/60		155	0.171428571	2.212121212	0.01639344	3 5	34	L 0	6	0	72	32
WF2		14	5.4			0.94	0.38	2 (0/60		128	0.111420011	2.212121212	0.01639344		0-		0	0	12	02
WF3		16				0.04	0.37	1 (0/60		107			0.01639344							
HC1	Hurricane Creek	12			-	0.11	0.28	2 (0/60		122	11.66666667	0.114285714	0.01639344		2	2 0	6	0	4	35
SA1	Sand Creek	10				0.063	0.47		0.048	128	1.2		0.06976744		4			2	6	96
			0.1					-								-			-	
	Average	13.19444	6.022222	5.944929	3.0124	41176	0.375556	2.305556 0.08	85042	133.25										
	Max	18	8.2	89	9	20	0.77	6	0.5	185										
	Min	7	4.2	0.0	1	0.023	0.16	0	0.016	105										

BC1	8/9/1999		
Periphyton	1	Slimes	0
Filamentous Algae	0	Macroinvertebrates	2
Macrophytes	0	Fish	2

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		]
Oligochaeta		3		0.000		
Gastropoda	Physa	8	8	0.703	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		10		0.000	Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae	7	9	0.692	Predators	
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera	1 90			0.000		
Trichoptera	Hydropsychidae	40	4	1.758	Filters	Webspinner
•	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	
	Leptoceridae		1	0.000	Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Longtoed
	Dytiscidae	9			Predators	Predacious
	Elmidae	4	4		Gathers	Riffle
	Haliplidae				Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eved
Diptera	Blood-red Chironomidae	17	8		Gathers	loyou
Diptora	Other Chironomidae	7	6		Gathers	
	Culicidae		Ŭ		Shredders	Mosquito
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	oraliony
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	ooracopogornado		Ŭ			DaphniaSeedshrimp
Hemiptera	Corixidae	2			Predators	Waterboatmen
liemptera	Nepidae	2		0.000		Waterboatmen
	Gerridae				Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	Pillbug
Amphipod			4		Shredders	Shrimp
Decapoda			6		Predators	Crayfish
Annelid	Hirudinea		v	0.000		Leech
Megaloptera	Sialidae	8	4		Predators	Dobsenfly
Nematomorpha			т		Parasite	Horsehair
Tubellaria					Scavengers	
		I		0.000	Clavellyers	

TAXA RICHNESS	11
FBI	5.637
Scraper/Filters	0.160
EPT/Chironomidae	1.667
% Contribution of Dominant Family	0.348
EPT Index	1.000
Community Similarity Indices	
CPOM	0.000
Total Number Collected	

BC2	8/10/1999	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Ī
Oligochaeta				0.000		Ī
Gastropoda	Physa	16	8	1.085	Scrapers	Lefthanded
•	Planorbidae	2			Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae	5		0.000	Scrapers	Limpet
Bivalvia		21		0.000	Filters	Ī
Ephemeroptera	Canidae	1	7	0.059	Gathers	Backplate
	Baetidae		4	0.000	Gathers	]
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae	1	3	0.025	Predators	Ī
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae	1	3	0.025	Predators	1
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae	60	9	4.576	Predators	Ī
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	1	4	0.034	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	Ī
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	4				Predacious
	Elmidae	1	4	0.034	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	28	8	1.898	Gathers	
	Other Chironomidae	7	6	0.356	Gathers	Ī
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6		Predators	]
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	Waterboatmen
	Nepidae			0.000		Ī
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	1	8		Shredders	
Amphipod			4		Shredders	
Decapoda		1	6	0.051	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha				0.000	Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	15
FBI	8.212
Scraper/Filters	1.045
EPT/Chironomidae	0.057
% Contribution of Dominant Family	0.400
EPT Index	2.000
Community Similarity Indices	
СРОМ	0.017
Total Number Collected	150

BC3	8/11/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta	17,00121			0.000		+
Gastropoda	Physa	19	8		Scrapers	Lefthanded
	Planorbidae	1			Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	7 moynado	9			Filters	Linpot
Ephemeroptera	Canidae	55	7		Gathers	Backplate
	Baetidae	4	4		Gathers	Daenpiato
	Heptageniidae	6	4		Scrapers	Scraping
Anisoptera	Aeshnidae	22	3		Predators	ooraping
	Corduliidae		5		Predators	l onalea
	Cordulegastridae		3		Predators	
	Libellulidae		9		Predators	+
Zygoptera	Coenagrioidae	14	9		Predators	ł
	Calopterygidae		5			Stiffantaena
Plecoptera	Galopiolygiado		Ŭ	0.000		otinantaona
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae	2				Predacious
	Elmidae	-	4		Gathers	Riffle
	Haliplidae	4				Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae			0.000	Predators	4eved
Diptera	Blood-red Chironomidae	6	8		Gathers	
	Other Chironomidae	32	6		Gathers	+
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		8	-			DaphniaSeedshrimp
Hemiptera	Corixidae	-		0.000	Predators	Waterboatmen
	Nepidae			0.000		1
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	1	8		Shredders	1
Amphipod		2	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea		-	0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria					Scavenge	

0 2 2

TAXA RICHNESS	15
FBI	6.366
Scraper/Filters	2.889
EPT/Chironomidae	1.711
% Contribution of Dominant Family	0.297
EPT Index	3.000
Community Similarity Indices	
CPOM	0.050
Total Number Collected	185

## BC3

8/1	4/1	999
0/1	4/	1999

0 2 2

Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	2	Fish

## Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		İ
Gastropoda	Physa	3	8	0.220	Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
_	Lvmnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		13		0.000	Filters	
Ephemeroptera	Canidae	8	7		Gathers	Backplate
	Baetidae		4		Gathers	1 '
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae	1	5		Predators	Lonalea
	Cordulegastridae		3		Predators	
	Libellulidae		9		Predators	t
Zygoptera	Coenagrioidae	18	9		Predators	
	Calopterygidae	1	5			Stiffantaena
Plecoptera	Caleptor)grade			0.000		
Trichoptera	Hydropsychidae	3	4		Filters	Webspinner
	Philopotamide	-	3		Gathers	
	Polycentropodidae		6		Filters	
	Leptoceridae	1	1		Gathers	1
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dvtiscidae		Ŭ			Predacious
	Elmidae	38	4		Gathers	Riffle
	Haliplidae	11	-			Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae		-		Predators	
Diptera	Blood-red Chironomidae	2	8		Gathers	
	Other Chironomidae	31	6		Gathers	
	Culicidae	2	-		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda			-			DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000	oualoro	
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea	<u> </u>	Ť	0.000		Leech
Megaloptera	Sialidae	3	4		Predators	
Nematomorpha		Ť	· ·		Parasite	Horsehair
Tubellaria					Scavenger	

TAXA RICHNESS	14
FBI	5.789
Scraper/Filters	0.188
EPT/Chironomidae	0.364
% Contribution of Dominant Family	0.281
EPT Index	3.000
Community Similarity Indices	
CPOM	0.017
Total Number Collected	135

## BG1

0

BG2

BG2

Periphyton

Filamentous Algae	2		Macroinvertebrates	1			
Macrophytes	1		Fish	2			
Macropriyles	1		F1511	2			
Maaraba	nthas Qualitativa Samala	liet					
Macrobe	nthos Quailitative Sample	LIST					
				501			
ORDER	FAMILY		TOLERANCE VALUES				
Oligochaeta	Dhurse	2	0	0.000	0	L a filla a ra al a r	
Gastropoda	Physa	1	8		Scrapers	Lefthandeo	r
	Planorbidae		0		Scrapers	Ramshorn	
	Lymnaeidae		6		Scrapers	Righthande	ea
Diversio	Ancylidae	00			Scrapers	Limpet	
Bivalvia	Canidaa	23	7		Filters	Deelvalate	
Ephemeroptera	Canidae	10	7		Gathers	Backplate	
	Baetidae		4		Gathers	0	
A	Heptageniidae	4	4		Scrapers	Scraping	
Anisoptera	Aeshnidae	1	3		Predators		
	Corduliidae		5		Predators	Longleg	
	Cordulegastridae		3		Predators	ł	
Zuzantara	Libellulidae	05	9		Predators	┥────	
Zygoptera	Coenagrioidae	25	9		Predators	04:44- 1	
Discontant	Calopterygidae	4	5			Stiffantaen	а
Plecoptera	l ludra na valai -!		A	0.000		\/ab!	
Trichoptera	Hydropsychidae	2	4		Filters	Webspinne	er
	Philopotamide		3		Gathers		
	Polycentropodidae		6	0.000	Filters	l	
	Leptoceridae		1		Gathers		
	Hydroptilidae		4		Filters	Sandsnails	hell
Coleoptera	Dryopidae		5		Predators		
	Dytiscidae	3				Predacious	6
	Elmidae	25	4		Gathers	Riffle	
	Haliplidae	1				Hairycrawli	
	Psephenidae		4				iy
	Gyrinidae				Predators	4eyed	
Diptera	Blood-red Chironomidae	6	8		Gathers		
	Other Chironomidae	13	6		Gathers		
	Culicidae				Shredders		
	Tipulidae		3		Predators	Cranefly	
	Tabanidae		6		Predators		
	Simulidae		6		Filters	Blackfly	
	Ceratopogonidae		6		Gathers	Bitingmidge	
Ostracoda	-			0.000	Scavenger	DaphniaSe	edshrimp
Hemiptera	Corixidae					Waterboat	men
	Nepidae			0.000			
	Gerridae					Waterstride	er
Isopoda	Asellidae		8		Shredders		
Amphipod			4		Shredders		
Decapoda		1	6		Predators		
Annelid	Hirudinea	1		0.000		Leech	
Megaloptera	Sialidae	3	4		Predators		
Nematomorpha					Parasite	Horsehair	
Tubellaria				0.000	Scavenger	Planaria	
						<u> </u>	
	16					<u> </u>	
FBI	6.352					<b></b>	
Scraper/Filters	0.040					<u> </u>	
EPT/Chironomidae	0.632					<u> </u>	
% Contribution of Dominant Family	0.207					<u> </u>	
EPT Index	2.000					<u> </u>	
Community Similarity Indices							
СРОМ	0.000					L	
Total Number Collected	121						

IC1	8/15/1999	
Periphyton	2	Sli

Periphyton	2	Slimes	0
Filamentous Algae	2	Macroinvertebrates	2
Macrophytes	1	Fish	2

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		I
Oligochaeta				0.000		1
Gastropoda	Physa	34	8	3.056	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
	Baetidae	2	4	0.090	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae	2	3		Predators	Ī
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	]
	Libellulidae		9		Predators	
Zygoptera	Coenagrioidae	7	9		Predators	
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		
Trichoptera	Hydropsychidae	2	4	0.090	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	21		0.000	Predators	Predacious
	Elmidae	7	4		Gathers	Riffle
	Haliplidae	9		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	1	8		Gathers	
	Other Chironomidae	34	6		Gathers	
	Culicidae	1			Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
l	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		2				DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	12	
FBI	6.708	
Scraper/Filters	17.000	
EPT/Chironomidae	0.114	
% Contribution of Dominant Family	0.279	
EPT Index	2.000	
Community Similarity Indices		
CPOM	0.000	0/60
Total Number Collected		122

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LC1	8/8/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		14		0.000		İ
Gastropoda	Physa	13	8	1.253	Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	,	13			Filters	1 '
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae	7	9	0.759	Predators	İ
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	19	4	0.916	Filters	Webspinner
· · ·	Philopotamide		3	0.000	Gathers	
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	İ
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae	15	5	0.904	Predators	Longtoed
•	Dytiscidae			0.000	Predators	Predacious
	Elmidae	9	4	0.434	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	12	8	1.157	Gathers	
	Other Chironomidae	6	6	0.434	Gathers	I
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6	0.000	Predators	Ī
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae	3			Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	2	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea	2		0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	12
FBI	6.048
Scraper/Filters	0.406
EPT/Chironomidae	1.056
% Contribution of Dominant Family	0.165
EPT Index	1.000
Community Similarity Indices	
СРОМ	0.033
Total Number Collected	115

LC2	8/10/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		19		0.000		1
Gastropoda	Physa	6	8	0.490	Scrapers	Lefthanded
•	Planorbidae	20			Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		9			Filters	1
Ephemeroptera	Canidae		7		Gathers	Backplate
	Baetidae		4	0.000	Gathers	
	Heptageniidae	1	4	0.041	Scrapers	Scraping
Anisoptera	Aeshnidae	1	3	0.031	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae	1	9	0.092	Predators	1
	Calopterygidae		5			Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
•	Philopotamide		3	0.000	Gathers	1 .
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1		Gathers	1
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
<b>-</b>	Dytiscidae	25				Predacious
	Elmidae	20	4	0.816	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	36	8	2.939	Gathers	
	Other Chironomidae	8	6		Gathers	Ī
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae	1	3		Predators	
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		2		0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
· ·	Nepidae	1		0.000		T
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	19	8	1.551	Shredders	Pillbug
Amphipod		5	4		Shredders	
Decapoda			6	0.000	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha				0.000	Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

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TAXA RICHNESS	16
FBI	6.684
Scraper/Filters	3.000
EPT/Chironomidae	0.023
% Contribution of Dominant Family	0.207
EPT Index	1.000
Community Similarity Indices	
СРОМ	0.500
Total Number Collected	174

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LP1	8/8/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		3		0.000		1
Gastropoda	Physa	11	8	1.189	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		65			Filters	1 '
Ephemeroptera	Canidae	8	7		Gathers	Backplate
	Baetidae	17	4	0.919	Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae		9		Predators	1
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	7	4	0.378	Filters	Webspinner
•	Philopotamide		3		Gathers	1 .
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1		Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae	3	5	0.203	Predators	Longtoed
ł	Dytiscidae					Predacious
	Elmidae		4	0.000	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	13	8	1.405	Gathers	
	Other Chironomidae	7	6	0.568	Gathers	Ī
	Culicidae	2		0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	1		0.000	Predators	Waterboatmen
	Nepidae			0.000		T
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8	0.000	Shredders	Pillbug
Amphipod		6	4		Shredders	
Decapoda		2	6		Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	13
FBI	5.905
Scraper/Filters	0.153
EPT/Chironomidae	1.600
% Contribution of Dominant Family	0.448
EPT Index	3.000
Community Similarity Indices	
СРОМ	0.050
Total Number Collected	145

LP2	8/8/1999		
Periphyton	1	Slimes	0
Filamentous Algae	1	Macroinvertebrates	2
Macrophytes	0	Fish	1

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		2		0.000		Ī
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
·	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	1
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
	Baetidae	56	4	1.764	Gathers	]
	Heptageniidae	22	4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	]
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	]
	Libellulidae		9	0.000	Predators	]
Zygoptera	Coenagrioidae		9	0.000	Predators	Ī
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	4	4	0.126	Filters	Webspinner
	Philopotamide		3		Gathers	Ī
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	1				Predacious
	Elmidae	2	4	0.063	Gathers	Riffle
	Haliplidae	4		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	23	8	1.449	Gathers	
·	Other Chironomidae	15	6	0.709	Gathers	Ī
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6	0.000	Predators	Ī
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		5				DaphniaSeedshrimp
Hemiptera	Corixidae	6		0.000	Predators	Waterboatmen
	Nepidae			0.000		Ī
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	4	8	0.252	Shredders	Pillbug
Amphipod		1	4	0.031	Shredders	Shrimp
Decapoda			6	0.000	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria		1		0.000	Scavenge	Planaria

TAXA RICHNESS	13
FBI	5.087
Scraper/Filters	5.500
EPT/Chironomidae	2.158
% Contribution of Dominant Family	0.386
EPT Index	3.000
Community Similarity Indices	
СРОМ	0.100
Total Number Collected	145

Perphyton         Image         Sitnes         O         Image           Filamentous Agae         2         Macrohverlebrales         2         Image	PC1	8/6/1999						
Filamentous Algae         2         Macroinvertebrates         2           Macrobenthos Qualitative Sample List         Fish         2         1           ORDER         FAMILY         COUNT         TOLERANCE VALUES         FBI         1           ORDER         FAMILY         COUNT         TOLERANCE VALUES         FBI         1           ORDER         FAMILY         COUNT         TOLERANCE VALUES         FBI         1           Oligocheela         Physia         12         8         1.371         Barapars         Lafithanded           Canidae         5         7         0.000         Scrapers         Ramshorn           Ephemeroplara         Canidae         5         7         0.000         Filters         Bactipation           Assiptica         2         3         0.000         Predators         Conjeg           Conduligastridae         2         3         0.000         Predators         Conjeg           Assiptica         Caloptergridae         3         0.000         Predators         Standards           Assiptica         Caloptergridae         3         0.0000         Filters         Standards           Trichogra         Hydropsychidae         4		6/6/1333						
Filamentous Algae         2         Macroinvertebrates         2           Macrobenthos Qualitative Sample List         Fish         2         1           ORDER         FAMILY         COUNT         TOLERANCE VALUES         FBI         1           ORDER         FAMILY         COUNT         TOLERANCE VALUES         FBI         1           ORDER         FAMILY         COUNT         TOLERANCE VALUES         FBI         1           Oligocheela         Physia         12         8         1.371         Barapars         Lafithanded           Canidae         5         7         0.000         Scrapers         Ramshorn           Ephemeroplara         Canidae         5         7         0.000         Filters         Bactipation           Assiptica         2         3         0.000         Predators         Conjeg           Conduligastridae         2         3         0.000         Predators         Conjeg           Assiptica         Caloptergridae         3         0.000         Predators         Standards           Assiptica         Caloptergridae         3         0.0000         Filters         Standards           Trichogra         Hydropsychidae         4	Periphyton	1		Slimes	0			
Macrophyles         2         Fish         2           Macrobenthos Qualifiative Sample List         0.000         Strapers         Lefthanded           ORDER         FAMUY         COUNT TOLERANCE VALUES F81         0.000         Strapers         Lefthanded           Gastropoda         Physa         12         8         1.371         Strapers         Lefthanded           Bastropoda         Physa         12         8         1.371         Strapers         Lefthanded           Bastropoda         Physa         12         8         1.371         Strapers         Lefthanded           Bastropoda         Canidae         5         7         0.300         Strapers         Righthanded           Bivatia         Canidae         5         7         0.300         Strapers         Foreping           Canidae         2         3         0.000         Predators         Foreping           Anisoptera         Canidae         3         9         4.342         Predators         Foreping           Condulegastridae         3         9         4.342         Predators         Foreping           Condulegastridae         4         0.000         Fores         Forepators         Foreping <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Macrobenthos Qualifizative Sample List         Image: Court of LERANCE VALUES F61           ORDER         FAMLY         COUNT TOLERANCE VALUES F61           Oligocheata         Physs         12         8         1.371 [Strapers Lefthanded           Gastopoda         Physs         12         8         1.371 [Strapers Lefthanded           Lynnaeidae         6         0.000 [Filters         Bamborn           Ephemeroptera         Canidae         5         7         0.600 [Strapers Rightanded           Ephemeroptera         Canidae         5         7         0.600 [Strapers Rightanded           Ansoptera         Asshudae         2         3         0.006 [Pitters         Backplate           Ansoptera         Asshudae         2         3         0.006 [Pitters         Backplate           Corduliaas         3         9         4.000 [Strapers Rightanded         Impediators         Impediators           Zypoptera         Canagripotaa         3         9         0.000 [Pitters         Backplate           Piecoptera         Higtopsthide         4         0.000 [Pitters         Bandanalahell           Condulgastridae         3         0.000 [Pitters         Sandanalahell           Tinchoptera         Phytoppidae								
CONDER         FAMILY         COUNT TOLERANCE VALUES F81         Image: Count Tolerance Values F81           Oligochaela         Physa         12         8         1.371         Strapers         Lothanded           Gastropoda         Physa         12         8         1.371         Strapers         Lothanded           Lynnaeidae         0         0.000         Strapers         Righthanded         Impet           Bastlaa         0         0.000         Strapers         Lighthanded         Impet           Bastlaa         1         0.000         Strapers         Strapers         Strapers           Bastlaa         1         0.000         Strapers         Strapers         Strapers           Canduegastridae         2         3         0.000         Freatars         Carapers           Canduegastridae         3         0.000         Preatars         Lobellutiae         Strapers           Zygoptera         Calopteryidae         3         0.000         Freatars         Strapers           Calopteryidae         3         0.000         Freatars         Strapers         Respiner           Zygoptera         Calopteryidae         4         0.000         Filters         Strapers		2			2			
CONDER         FAMILY         COUNT TOLERANCE VALUES F81         Image: Count Tolerance Values F81           Oligochaela         Physa         12         8         1.371         Strapers         Lothanded           Gastropoda         Physa         12         8         1.371         Strapers         Lothanded           Lynnaeidae         0         0.000         Strapers         Righthanded         Impet           Bastlaa         0         0.000         Strapers         Lighthanded         Impet           Bastlaa         1         0.000         Strapers         Strapers         Strapers           Bastlaa         1         0.000         Strapers         Strapers         Strapers           Canduegastridae         2         3         0.000         Freatars         Carapers           Canduegastridae         3         0.000         Preatars         Lobellutiae         Strapers           Zygoptera         Calopteryidae         3         0.000         Freatars         Strapers           Calopteryidae         3         0.000         Freatars         Strapers         Respiner           Zygoptera         Calopteryidae         4         0.000         Filters         Strapers	Macrobe	thos Quailitative Sample I	liet					
Oligochaeia         Physa         12         8         1.371         Scrapers         Ramshord           Gastropoda         Planorbidae         0.000         Scrapers         Ramshord           Lymnaeidae         6         0.000         Scrapers         Ramshord           Brahria         6         0.000         Scrapers         Limpet           Ephemeroptera         Canidae         5         7         0.500         Sathers           Baetidae         4         0.000         Scrapers         Scrapers           Ansphridae         2         3         0.086         Predators           Cordulidae         9         0.000         Predators         Impet           Corduligaestidae         3         9         4.243         Predators           Corduligaestidae         3         0.000         Predators         Impet           Phoptera         Contagridae         3         0.000         Predators           Corduligaestidae         4         0.000         Filters         Sadhalors           Corduligaestidae         4         0.000         Filters         Sadhalors           Corduligaestidae         4         0.000         Filters         Sadhalors <td>Iviaci obe</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Iviaci obe							
Oligochaeia         Physa         12         8         1.371         Scrapers         Ramshord           Gastropoda         Planorbidae         0.000         Scrapers         Ramshord           Lymnaeidae         6         0.000         Scrapers         Ramshord           Brahria         6         0.000         Scrapers         Limpet           Ephemeroptera         Canidae         5         7         0.500         Sathers           Baetidae         4         0.000         Scrapers         Scrapers           Ansphridae         2         3         0.086         Predators           Cordulidae         9         0.000         Predators         Impet           Corduligaestidae         3         9         4.243         Predators           Corduligaestidae         3         0.000         Predators         Impet           Phoptera         Contagridae         3         0.000         Predators           Corduligaestidae         4         0.000         Filters         Sadhalors           Corduligaestidae         4         0.000         Filters         Sadhalors           Corduligaestidae         4         0.000         Filters         Sadhalors <td>ORDER</td> <td></td> <td>COUNT</td> <td>TOLEBANCE VALUES</td> <td>FRI</td> <td></td> <td></td> <td></td>	ORDER		COUNT	TOLEBANCE VALUES	FRI			
Gastropoda         Physa         12         8         1.371 Strappers         Lethnaded           Lymnaeidae         6         0.000 Strappers         Righthanded           Ancylidae         0.000 Strappers         Righthanded           Bivalvia         0.000 Strappers         Righthanded           Ephemeroptera         Canidae         5         7         0.500 Gathers         Backplate           Babilakia         4         0.000 Strappers         Strapping         Strapping           Antsoptera         Aeshnidae         2         3         0.000 Predators         Corduidegastridae         3         0.000 Predators         Corduidegastridae         3         0.000 Predators         Concluidae         2         3         0.000 Predators         Concluidae         2         3         0.000 Predators         Concluidae         2         3         0.000 Predators         Concluidae         2         3         0.000 Predators         Concluidae         2         3         0.000 Predators         Concluidae         2         0.000 Predators         Concluidae         2         0.000 Predators         Concluidae         2         0.000 Predators         Concluidae         2         0.000 Predators         Concluidae         2         0.000 Predators				TOLLIVANOL VALUES				
Planobidae         0.000         Scrapers         Ramshom           Ancylidae         6         0.000         Scrapers         Limpet           Biavaia         -         0.000         Scrapers         Limpet           Ephemeroptera         Canidae         5         7         0.500         Gathers           Baetidae         4         0.000         Scrapers         Scrapers           Anisoptera         Aeshnidae         2         3         0.006         Prodators           Corduligaestridae         3         0.000         Prodators         Corduligaestridae         3         0.000         Prodators           Corduligaestridae         3         9         4.243         Prodators         Corduligaestridae         Corduligaes		Physa		8		Scrapere	Lefthander	4
Lymnaeidae         6         0.000         Strapers         Righthanded           Bivalvia         0.0000         Strapers         Limpter           Bivalvia         0.0000         Filters         Backlate           Ephemeroptera         Caridae         5         7         0.5000         Gathers           Baetidae         4         0.0000         Strapers         Straping           Anisoptera         Aeshnidae         2         3         0.0000         Predators           Cordulegastridae         3         0.0000         Predators         Longing           Zygoptera         Coenagriodae         33         9         4.243         Predators           Pilcoptera         Calopteryidae         4         0.0000         Predators         Intranava           Pilcoptera         Hydropsychidae         6         0.0000         Filters         Webspirmer           Calopteryidiae         6         0.0000         Gathers         Sandonalisheli           Coleoptera         Hydropsychidae         6         0.0000         Gathers         Sandonalisheli           Coleoptera         Hydropsychidae         6         0.0000         Gathers         Sandonau           Phistopt			12	0				4
Ancylidae         0.000         Strapers         Limpet           Ephemeroptera         Canidae         5         7         0.500         Gathers         Backulate           Ephemeroptera         Gathers         Backulate         4         0.000         Scrapers         Scraping           Anisoptera         Aeshnidae         2         3         0.086         Predators         Darality           Cordulidae         0         0.000         Predators         Cordulidae         0.000         Predators           Cordulidae         3         0.000         Predators         Libelluildae         0.000         Predators         Imple           Zygoptera         Caonegnoidae         33         9         4.423         Predators         Imple           Trichoptera         Hydropsychidae         4         0.000         Fredators         Imple         Imp				6				he
Bivalvia				0				Ju
Ephemeroptera         Canidae         5         7         6.500 [athers]         Backplate           Heptagenidae         4         0.000 [athers]         Scraping           Anisoptera         Aeshnidae         2         3         0.068 Predators           Cordulidae         2         3         0.000 Predators         Image: Scraping           Cordulidae         3         0.000 Predators         Image: Scraping           Cordulidae         3         0.000 Predators         Image: Scraping           Zygoptera         Coentagroidae         33         9         4.243 Predators           Zygoptera         Calopterygidae         5         0.000 Predators         Image: Scraping           Trichoptera         Hydropsychidae         4         0.000 Predators         Image: Scraping           Trichoptera         Hydropsychidae         6         0.000 Predators         Image: Scraping           Coleoptera         Proynordae         6         5         0.429 Predators         Image: Scraping           Coleoptera         Drypoidae         6         5         0.429 Predators         Image: Scraping           Coleoptera         Drypoidae         6         5         0.429 Predators         Image: Scraping	Biyalyia	Ancylidae					Limper	
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Anisoptera         Aeshnidae         2         3         0.066         Predators         Conduliga           Cordulegastridae         3         0.000         Predators         Condulegastridae         3         0.000         Predators         Condulegastridae         3         0.000         Predators         Condulegastridae         33         9         4.243         Predators         Conductars         Co							Scroping	
Cordulidae         5         0.000         Predators         Longleg           Libelluidae         9         0.000         Predators         Image: Consequence of the second o	Anicontoro		2				Scraping	
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Plecoptera         L         0.000         Image: constraint of the second sec			33				Ctiffant	
Trichoptera     Hydropsychidae     4     0.000     Filters     Webspinner       Philopotamide     3     0.000     Gathers     Image: Construction of the second se	Discontoro	Calopterygidae		5			Sunantaen	a
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TAXA RICHNESS         13         0								
FBI         7.629         Image: Constraint of the system o	Tubellaria				0.000	Scavenger	Planaria	
FBI         7.629         Image: Constraint of the system o								
Scraper/Filters         #DIV/0!         12/0         Image: Constraint of the system of the								
EPT/Chironomidae         0.625         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.260         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family         0.067         Image: Constribution of Dominant Family								
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Community Similarity Indices								
CPOM 0.067 0.067		1.000						
Total Number Collected 127	СРОМ							
	Total Number Collected	127						

PC2	8/7/1999	
Periphyton	0	Slimes
Filamentous Algae	0	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		I
Oligochaeta		2		0.000		1
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	,	3			Filters	1 '
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae	1	3	0.042	Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae	2	9		Predators	Ī
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	3	4	0.169	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t i
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae	12	5	0.845	Predators	Longtoed
•	Dytiscidae			0.000	Predators	Predacious
	Elmidae	7	4	0.394	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	28	8	3.155	Gathers	
	Other Chironomidae	15	6	1.268	Gathers	Ī
	Culicidae	6		0.000	Shredders	Mosquito
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6	0.000	Predators	Ī
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		19		0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	3				Waterboatmen
	Nepidae			0.000		I
	Gerridae					Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod		3	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea	1		0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

1 2

TAXA RICHNESS	14	
FBI	6.296	
Scraper/Filters	0.000	0/6
EPT/Chironomidae	0.070	
% Contribution of Dominant Family	0.267	
EPT Index	1.000	
Community Similarity Indices		
СРОМ	0.033	
Total Number Collected	10	5

PC3	8/7/1999						
Periphyton	1		Slimes	0			
Filamentous Algae	2		Macroinvertebrates	3			
Macrophytes	1		Fish	2			
Macrophytes	•						
Macrobe	nthos Quailitative Sample	list					
Madrobe							
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Oligochaeta		1	TOLENANOL TALOLO	0.000			
Gastropoda	Physa		8		Scrapers	Lefthanded	
Gastiopoda	Planorbidae		0	0.000	Scrapers	Ramshorn	
	Lymnaeidae		6		Scrapers	Righthande	ad a
	Ancylidae	1	0	0.000	Scrapers	Limpet	,u
Bivalvia	Ancylidae	12			Filters	Limper	
Ephemeroptera	Canidae	4	7		Gathers	Backplate	
Ephemeroplera			4			Баскріате	
	Baetidae	2			Gathers	O anna n im m	
	Heptageniidae		4		Scrapers	Scraping	
Anisoptera	Aeshnidae		3		Predators	Lande	
	Corduliidae		5		Predators	Longleg	
	Cordulegastridae		3		Predators		
-	Libellulidae		9		Predators		
Zygoptera	Coenagrioidae		9		Predators		
	Calopterygidae		5			Stiffantaen	а
Plecoptera				0.000			
Trichoptera	Hydropsychidae	90	4		Filters	Webspinne	er
	Philopotamide		3		Gathers		
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers		
	Hydroptilidae		4	0.000	Filters	Sandsnails	hell
Coleoptera	Dryopidae	15	5	0.547	Predators	Longtoed	
· · · ·	Dytiscidae			0.000	Predators	Predacious	
	Elmidae	6	4	0.175	Gathers	Riffle	
	Haliplidae			0.000	Predators	Hairycrawli	ng
	Psephenidae		4	0.000	Scrapers	Waterpenn	
	Gyrinidae				Predators	4eyed	<i>.</i>
Diptera	Blood-red Chironomidae	5	8		Gathers	ý	
- 1	Other Chironomidae	9	6		Gathers		
	Culicidae	2			Shredders	Mosquito	
	Tipulidae		3			Cranefly	
	Tabanidae		6		Predators		
	Simulidae		6		Filters	Blackfly	
	Ceratopogonidae		6		Gathers	Bitingmidge	<u>د</u>
Ostracoda	Coldiopogoliliduo					DaphniaSe	edshrimp
Hemiptera	Corixidae					Waterboatr	
	Nepidae			0.000			
	Gerridae					Waterstride	er
Isopoda	Asellidae	5	8		Shredders		<i></i>
Amphipod	Astilluat	5	4		Shredders		
Decapoda			6			Crayfish	
Annelid	Hirudinea	2	U	0.000		Leech	
Megaloptera	Sialidae	<u> </u>	4		Predators		
Nematomorpha	Jiailuat		4		Predators	Horsehair	
Tubellaria					Scavenger		
				0.000	Scaveriger	i idiidiid	
	1 4						
	14						
FBI	4.620						
Scraper/Filters	0.010						
EPT/Chironomidae	6.857						
% Contribution of Dominant Family	0.581						
EPT Index	3.000						
Community Similarity Indices							
СРОМ	0.050						
Total Number Collected	155						

PC4	8/7/1999						
Periphyton	2		Slimes	0			
Filamentous Algae	2		Macroinvertebrates	3			
Macrophytes	1		Fish	2			
Macrobe	nthos Quailitative Sample	List					
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI			
Oligochaeta				0.000			
Gastropoda	Physa		8		Scrapers	Lefthanded	
	Planorbidae		-	0.000	Scrapers	Ramshorn	-
	Lymnaeidae		6		Scrapers	Righthande	ed
	Ancylidae		-		Scrapers	Limpet	
Bivalvia					Filters	Linpot	
Ephemeroptera	Canidae		7		Gathers	Backplate	
	Baetidae	27	4		Gathers	Baenplate	
	Heptageniidae	/	4		Scrapers	Scraping	
Anisoptera	Aeshnidae	1	3	0.000	Predators	Coraping	
	Corduliidae	<u> </u>	5		Predators	Longleg	
	Cordulegastridae	1	3		Predators	9'09	
	Libellulidae	1	9		Predators		
Zygoptera	Coenagrioidae		9		Predators		
	Calopterygidae		5			Stiffantaen	а
Plecoptera	Calopterygidae		5	0.000	Tieualois	Sunantaen	a
Trichoptera	Hydropsychidae	73	4		Filters	Webspinne	ar .
Пспортега	Philopotamide	15	3		Gathers	vebspirite	71
	Polycentropodidae		6		Filters		
	Leptoceridae	-	1		Gathers		
	Hydroptilidae	-	4		Filters	Sandsnails	holl
Colooptoro	Dryopidae	12	5			Longtoed	neii
Coleoptera	Dytiscidae	12	5			Predacious	
	Elmidae		4		Gathers	Riffle	•
	Haliplidae		4				
			4		Scrapers	Hairycrawli	
	Psephenidae		4		Predators	Waterpenn	у
Distars	Gyrinidae Blood-red Chironomidae	2	0			4eyed	
Diptera		3	8		Gathers		
	Other Chironomidae	2	6		Gathers	N.4	
	Culicidae		0		Shredders		
	Tipulidae		3			Cranefly	
	Tabanidae		6		Predators	<b>D</b> 1 1 <b>A</b>	
	Simulidae		6		Filters	Blackfly	
	Ceratopogonidae		6		Gathers	Bitingmidge	
Ostracoda	A					DaphniaSe	
Hemiptera	Corixidae					Waterboatr	nen
	Nepidae			0.000		M/-/ ···	
	Gerridae					Waterstride	er
Isopoda	Asellidae		8		Shredders		
Amphipod			4		Shredders		
Decapoda	1.P. P.	<u> </u>	6			Crayfish	
Annelid	Hirudinea	1		0.000		Leech	
Megaloptera	Sialidae		4			Dobsenfly	
Nematomorpha					Parasite	Horsehair	
Tubellaria				0.000	Scavenger	Planaria	
	7						
FBI	4.229	0/=-					
Scraper/Filters	0.000	0/73					
EPT/Chironomidae	20.000						
% Contribution of Dominant Family	0.613	ļ					
EPT Index	2.000	L					
Community Similarity Indices							
CPOM	0.000	0/60					
Total Number Collected	119						

PC5	8/7/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta				0.000		1
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	,			0.000	Filters	1 '
Ephemeroptera	Canidae	2	7	0.109	Gathers	Backplate
· · ·	Baetidae	9	4	0.281	Gathers	
	Heptageniidae	1	4	0.031	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9		Predators	1
Zygoptera	Coenagrioidae	1	9	0.070	Predators	1
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		1
Trichoptera	Hydropsychidae	92	4	2.875	Filters	Webspinner
•	Philopotamide		3		Gathers	1 .
	Polycentropodidae		6	0.000	Filters	4
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae	9	5		Predators	Lonatoed
	Dvtiscidae		-			Predacious
_	Elmidae	6	4	0.188	Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae				Predators	4eved
Diptera	Blood-red Chironomidae	3	8		Gathers	
•	Other Chironomidae	3	6	0.141	Gathers	1
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6	0.000	Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	1		0.000	Predators	Waterboatmen
<b>I</b>	Nepidae			0.000		1
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8	0.000	Shredders	Pillbug
Amphipod			4		Shredders	
Decapoda		1	6		Predators	
Annelid	Hirudinea	1		0.000		Leech
Megaloptera	Sialidae	1	4	0.031	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria		1			Scavenge	Planaria

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TAXA RICHNESS	13	
FBI	4.313	
Scraper/Filters	0.011	
EPT/Chironomidae	17.333	
% Contribution of Dominant Family	0.708	
EPT Index	4.000	
Community Similarity Indices		
CPOM	0.000	0/60
Total Number Collected		130

## DC5

PC6	8/9/1999	
Periphyton	1	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		3		0.000		Ť
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae	8		0.000	Scrapers	Limpet
Bivalvia		2			Filters	1 .
Ephemeroptera	Canidae	6	7	0.420	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	
	Heptageniidae	3	4	0.120	Scrapers	Scraping
Anisoptera	Aeshnidae	2	3	0.060	Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae	9	9		Predators	1
<u> </u>	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera			-	0.000		1
Trichoptera	Hydropsychidae		4	0.000	Filters	Webspinner
-	Philopotamide		3		Gathers	1 '
	Polycentropodidae		6		Filters	1
	Leptoceridae		1		Gathers	Ť
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Lonatoed
• · · · · · · · · · · · ·	Dytiscidae	9				Predacious
	Elmidae	13	4		Gathers	Riffle
	Haliplidae	2				Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	5	8		Gathers	,
-	Other Chironomidae	31	6		Gathers	1
	Culicidae	-			Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	t í
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6	0.000	Gathers	Bitingmidge
Ostracoda		12				DaphniaSeedshrimp
Hemiptera	Corixidae	2				Waterboatmen
	Nepidae			0.000		Ť
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	31	8	2.480	Shredders	Pillbug
Amphipod			4	0.000	Shredders	Shrimp
Decapoda			6		Predators	
Annelid	Hirudinea	3		0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha		1			Parasite	Horsehair
Tubellaria		1			Scavenge	Planaria

TAXA RICHNESS	16
FBI	6.670
Scraper/Filters	5.500
EPT/Chironomidae	0.250
% Contribution of Dominant Family	0.220
EPT Index	2.000
Community Similarity Indices	
СРОМ	0.200
Total Number Collected	141

PC7	8/9/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		6		0.000		İ
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia					Filters	
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
	Baetidae		4	0.000	Gathers	
	Heptageniidae	1	4	0.042	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae	8	9		Predators	
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		
Trichoptera	Hydropsychidae	12	4	0.505	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	
	Polycentropodidae		6	0.000	Filters	
	Leptoceridae		1	0.000	Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
	Dytiscidae	19		0.000	Predators	Predacious
	Elmidae	12	4		Gathers	Riffle
	Haliplidae	2		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	4	8		Gathers	
	Other Chironomidae	57	6		Gathers	
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	1	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6	0.000	Predators	Crayfish
Annelid	Hirudinea	5		0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

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TAXA RICHNESS	11
FBI	5.832
Scraper/Filters	0.083
EPT/Chironomidae	0.213
% Contribution of Dominant Family	0.449
EPT Index	2.000
Community Similarity Indices	
CPOM	0.017
Total Number Collected	127

PC8	8/9/1999	
Periphyton	2	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		2		0.000		Ī
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
·	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae		6	0.000	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia				0.000	Filters	Ī
Ephemeroptera	Canidae	9	7	0.492	Gathers	Backplate
	Baetidae		4	0.000	Gathers	]
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	1
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	1
	Libellulidae		9	0.000	Predators	]
Zygoptera	Coenagrioidae		9	0.000	Predators	1
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		1
Trichoptera	Hydropsychidae	77	4		Filters	Webspinner
	Philopotamide		3	0.000	Gathers	]
	Polycentropodidae		6	0.000	Filters	]
	Leptoceridae		1		Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
	Dytiscidae	17		0.000	Predators	Predacious
	Elmidae	6	4		Gathers	Riffle
	Haliplidae	4		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	3	8		Gathers	]
	Other Chironomidae	26	6		Gathers	I
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		2				DaphniaSeedshrimp
Hemiptera	Corixidae	2				Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	5	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae	2	4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

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TAXA RICHNESS	12	
FBI	4.867	
Scraper/Filters	0.000	0/77
EPT/Chironomidae	2.966	
% Contribution of Dominant Family	0.497	
EPT Index	2.000	
Community Similarity Indices		
CPOM	0.067	
Total Number Collected	15	55

C9	8/10/1999	
eriphyton	1	Slime

Periphyton	1	Slimes	0
Filamentous Algae	2	Macroinvertebrates	2
Macrophytes	0	Fish	2

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		†
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia	,				Filters	1 '
Ephemeroptera	Canidae	5	7	0.398	Gathers	Backplate
-	Baetidae	1	4		Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
-	Corduliidae		5		Predators	Lonalea
	Cordulegastridae		3		Predators	5 5
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae	11	9		Predators	+
	Calopterygidae		5	-		Stiffantaena
Plecoptera	Caloptorygidad			0.000		ounanaona
Trichoptera	Hydropsychidae	1	4	0.045	Filters	Webspinner
Theneptera	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
obicoptera	Dytiscidae	9				Predacious
	Elmidae	29	4		Gathers	Riffle
	Haliplidae	20				Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae		<b>—</b>		Predators	
Diptera	Blood-red Chironomidae	21	8		Gathers	Foyca
Biptelu	Other Chironomidae	10	6		Gathers	ł
	Culicidae	10	•		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	oranony
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda			•			DaphniaSeedshrimp
Hemiptera	Corixidae	17				Waterboatmen
Tiemptera	Nepidae	17		0.000	i icuators	Waterboatmen
	Gerridae	1			Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod		9	4		Shredders	
Decapoda		3	6		Predators	
Annelid	Hirudinea		0	0.000		Leech
Megaloptera	Sialidae	1	4		Predators	
Nematomorpha	Sialiuae		4		Predators	Horsehair
Tubellaria						
				0.000	Scavenger	

TAXA RICHNESS	12	
FBI	5.977	
Scraper/Filters	0.000	0/1
EPT/Chironomidae	0.226	
% Contribution of Dominant Family	0.252	
EPT Index	3.000	
Community Similarity Indices		
CPOM	0.083	
Total Number Collected	11	5

## PC9

PC11	8/11/1999	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		1
Gastropoda	Physa	2	8		Scrapers	Lefthanded
	Planorbidae	-			Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae		-		Scrapers	Limpet
Bivalvia	, and judge				Filters	
Ephemeroptera	Canidae	16	7		Gathers	Backplate
	Baetidae	4	4		Gathers	
	Heptageniidae	6	4		Scrapers	Scraping
Anisoptera	Aeshnidae	-	3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9		Predators	Ť
Zygoptera	Coenagrioidae		9	0.000	Predators	
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ť
Trichoptera	Hydropsychidae	62	4	1.922	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t ·
	Polycentropodidae	1	6	0.047	Filters	Ť
	Leptoceridae	3	1	0.023	Gathers	†
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
· ·	Dytiscidae			0.000	Predators	Predacious
	Elmidae	17	4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	11	8	0.682	Gathers	]
	Other Chironomidae	4	6		Gathers	I
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae				Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae	3	4			Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 2 2

TAXA RICHNESS	11
FBI	4.783
Scraper/Filters	0.127
EPT/Chironomidae	6.133
% Contribution of Dominant Family	0.481
EPT Index	6.000
Community Similarity Indices	
CPOM	0.033
Total Number Collected	129

# DC11

PC12	8/12/1999	
Periphyton	2	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		I
Oligochaeta				0.000		Ť
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	,	5		0.000	Filters	1 .
Ephemeroptera	Canidae	17	7	0.862	Gathers	Backplate
· · ·	Baetidae		4	0.000	Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae	1	9	0.065	Predators	Ť
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		1
Trichoptera	Hydropsychidae	70	4	2.029	Filters	Webspinner
•	Philopotamide		3	0.000	Gathers	1 .
	Polycentropodidae		6	0.000	Filters	Ť
	Leptoceridae		1		Gathers	1
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	Lonatoed
	Dytiscidae	1				Predacious
	Elmidae	37	4	1.072	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae		8	0.000	Gathers	
	Other Chironomidae	11	6	0.478	Gathers	Ť
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		Ī
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8	0.000	Shredders	Pillbug
Amphipod			4	0.000	Shredders	Shrimp
Decapoda			6	0.000	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae	2	4	0.058	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 2 1

TAXA RICHNESS	8
FBI	4.565
Scraper/Filters	0.000 0/75
EPT/Chironomidae	7.909
% Contribution of Dominant Family	0.486
EPT Index	2.000
Community Similarity Indices	
CPOM	0.000
Total Number Collected	144

# DC12

PC13	8/13/1999	
Periphyton	1	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta	17,00121			0.000		+
Gastropoda	Physa	3	8		Scrapers	Lefthanded
	Planorbidae		Ŭ		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae		Ŭ		Scrapers	Limpet
Bivalvia	7 moynado	9		0.000	Filters	Linpot
Ephemeroptera	Canidae	18	7		Gathers	Backplate
	Baetidae	3	4		Gathers	
	Heptageniidae	-	4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
	Corduliidae		5		Predators	Lonalea
	Cordulegastridae		3		Predators	33
	Libellulidae		9		Predators	+
Zygoptera	Coenagrioidae	2	9		Predators	+
	Calopterygidae		5			Stiffantaena
Plecoptera	o alop tor j glado			0.000		
Trichoptera	Hydropsychidae	43	4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	+
	Leptoceridae		1		Gathers	ł
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae	3				Predacious
	Elmidae	11	4		Gathers	Riffle
	Haliplidae	1				Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gvrinidae	1			Predators	
Diptera	Blood-red Chironomidae	4	8		Gathers	,
	Other Chironomidae	23	6		Gathers	+
	Culicidae				Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	- ,
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	15					DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		1
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4	0.000	Shredders	Shrimp
Decapoda			6		Predators	
Annelid	Hirudinea		-	0.000		Leech
Megaloptera	Sialidae	2	4		Predators	
Nematomorpha		<u> </u>			Parasite	Horsehair
Tubellaria		1			Scavenge	

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TAXA RICHNESS	13	
FBI	5.266	
Scraper/Filters	0.058	
EPT/Chironomidae	2.370	
% Contribution of Dominant Family	0.350	
EPT Index	3.000	
Community Similarity Indices		
CPOM	0.000	0/60
Total Number Collected	12	23

# DC13

PC14	8/16/1999	
Periphyton	1	Slimes
Filamentous Algae	3	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		+
Gastropoda	Physa	4	8		Scrapers	Lefthanded
	Planorbidae		Ű		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae		Ŭ		Scrapers	Limpet
Bivalvia	741091440	21		0.000	Filters	Linpot
Ephemeroptera	Canidae	48	7		Gathers	Backplate
	Baetidae	24	4		Gathers	Duonpiato
	Heptageniidae	3	4		Scrapers	Scraping
Anisoptera	Aeshnidae	1	3		Predators	ooraping
	Corduliidae	· ·	5		Predators	l ongleg
	Cordulegastridae		3		Predators	Longiog
	Libellulidae		9		Predators	4
Zygoptera	Coenagrioidae		9		Predators	4
Zygoptora	Calopterygidae		5			Stiffantaena
Plecoptera	Galopterygidae		3	0.000		Otinantacha
Trichoptera	Hydropsychidae	3	4		Filters	Webspinner
	Philopotamide		3		Gathers	Webspinner
	Polycentropodidae		6		Filters	4
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae		3			Predacious
	Elmidae	2	4		Gathers	Riffle
	Haliplidae	4				Hairycrawling
	Psephenidae	4	4		Scrapers	Waterpenny
	Gvrinidae				Predators	
Diptera	Blood-red Chironomidae	1	8		Gathers	40y0u
	Other Chironomidae	27	6		Gathers	+
	Culicidae	21	0		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	oraneny
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	Celatopogenidae		Ű			DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		Waterboatmen
	Gerridae					Waterstrider
Isopoda	Asellidae		8		Shredders	
				0.000	Shredders	Shrimn
	Hirudinea		0			Leech
			Δ			
		1	+			Horsehair
		2				1
Amphipod Decapoda Annelid Megaloptera Nematomorpha Tubellaria	Hirudinea Sialidae	2	4 6 4	0.000 0.000 0.000 0.000 0.000	S P P	hredders redators redators arasite cavenge

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TAXA RICHNESS	12
FBI	5.920
Scraper/Filters	0.292
EPT/Chironomidae	2.786
% Contribution of Dominant Family	0.343
EPT Index	4.000
Community Similarity Indices	
СРОМ	0.017
Total Number Collected	140

# 

Perphyton         2         Slimes         0           Flamentous Algae         2         Macroinverberates         2           Macrophytes         1         Fish         2         1           Macrophytes         1         Fish         2         1           Macrophytes         1         Fish         2         1           OBjochasta         Physis         1         8         0.000         Generation and and and and and and and and and an	PC16	8/6/1999						
Filamentous Algae         2         Macrophytes         2           Macrophytes         1         Fish         2           Macrophytes         1         Fish         2           Macrophytes         1         Fish         2           Macrophytes         1         0.000         Count           ORDER         FAMLY         COUNT         TOLERANCE VALUES F81           Oligochesta         1         8         0.118         Strapers           Castropoda         Physa         1         8         0.000         Strapers           Castropoda         Physa         1         8         0.000         Strapers         Lefthanded           Backlake         6         0.000         Strapers         Each         1         8         0.000         Strapers         Each           Bhadvia         Condulidae         20         4         1.176         Strapers         Straping           Anisoptera         Castropidae         3         0.000         Prodators         Straping           Condulidae         5         9         0.662         Prodators         Straping           Anisoptera         Castroprididae         3         0.000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Macrobentios Qualitative Sample List         Fish         2           ORDER         FAMILY         COUNT TOLERANCE VALUES FBI         0.000           Glaschaeta         Planorbidae         0.000         Scrapers         Rethanded           Gastropoda         Physa         1         8         0.100         Scrapers         Rethanded           Gastropoda         Physa         1         8         0.100         Scrapers         Rethanded           Bivalvia         Ancividae         4         0.000         Scrapers         Reghtmanded           Bivalvia         Canidae         12         7         1.233         Gathers         Backplate           Ephemeroptera         Canidae         20         4         1.170         Gathers         Scraping           Anisoptera         Conduigastridae         3         0.000         Predators         Longleg           Conduigastridae         5         9         0.662         Predators         Suffantaena           Picoptera         Hydropsychidae         20         4         1.776         Filters         Sadsmaltsell           Conduigastridae         2         5         0.417         Predators         Suffantaena           Picopter								
Macrobenthos Qualitative Sample List         Image: Construct of the second								
ORDER         FAMILY         COUNT         TOLERANCE VALUES         Foil         Image: Count of the count	Macrophytes	1		Fish	2			
ORDER         FAMILY         COUNT         TOLERANCE VALUES         Foil         Image: Count of the count								
Oligochesta         Priva         1         0.000	Macrobe	nthos Quailitative Sample I	List					
Oligochesta         Priva         1         0.000					501			
Gastropoda         Physia         1         8         0.118 Scrapers         Lefthanded           Uymoaeldae         6         0.000 Scrapers         Righthanded           Bravia         Ancylidae         6         0.000 Scrapers         Righthanded           Bivaliva         44         0.000 Scrapers         Righthanded           Ephemeroptera         Canidae         12         7         12.35 Gathers         Backpiae           Ephemeroptera         Banklae         20         4         11.76 Gathers         Scrapers           Anisoptera         Aesthidae         3         0.000 Predators         Longleg           Cordulagestridae         3         0.000 Predators         Longleg           Zygoptera         Coenagriodae         5         9         0.6221 Predators           Piecoptera         Catopterygidae         3         0.000 Predators         Veloptera           Philopotamide         20         4         1.176 Filters         Webspinner           Philopotamide         2         0.000 Fredators         Sandsnaisheil           Colooptera         Phydroptidae         2         0.000 Filters         Sandsnaisheil           Colooptera         Dyopridatora         2         0.000	-	FAMILY	COUNT	TOLERANCE VALUES				
Planorbidae         0.000 Scrapers         Rambom           Lymneldae         6         0.000 Scrapers         Righthanded           Bravia         6         0.000 Scrapers         Linpet           Bravia         2         7         1235 Gathers         Baselidae           Ephemeroptera         Canidae         12         7         1235 Gathers         Baselidae           Anisoptera         Baselidae         20         4         1176 Gathers         Baselidae           Cordulegastridae         3         0.000 Predators         Longleg           Cordulegastridae         3         0.000 Earbers         Longleg           Trichoptera         Hydropsychidae         20         4         1.176 Filters         Webspinner           Trichoptera         Hydropsychidae         2         6         0.000 Filters         Longlegastridae           Coleoptera         Dyropidae         2 </td <td></td> <td>Dhype</td> <td>1</td> <td>0</td> <td></td> <td>Soronoro</td> <td>Lofthandad</td> <td>1</td>		Dhype	1	0		Soronoro	Lofthandad	1
Lymnaeidae         6         0.000 Scrapers         Righthanded           Bivalvia         44         0.000 Scrapers         Limpet           Bivalvia         44         0.000 Scrapers         Limpet           Ephemeroptera         Canidae         12         7         1235 Gathers         Backlate           Ephemeroptera         Baetklate         20         4         1176 Gathers         Backlate           Anisoptera         Absthidae         3         0.000 Predators         Longlate           Cordulegastridae         3         0.000 Predators         Longlate         Serapers           Zygoptera         Coenagriodae         5         9         0.6221 Predators           Zygoptera         Calopterygidae         3         0.000 Fredators         Suffantaena           Picoptera         Calopterygidae         20         4         1176 Filters         Webspinner           Pilopotanide         20         4         1176 Filters         Webspinner         Sandsnaishell           Coleoptera         Dycycatropodidae         2         5         0.147 Predators         Sandsnaishell           Coleoptera         Dycycatropodidae         2         5         0.147 Predators         Sandsnaishell	Gastropoda		I	0				1
Ancylidae         Ancylidae         Limpet           Bivalvia         Canidae         12         7         1.325         Gathers           Ephemeroptera         Canidae         12         7         1.325         Gathers           Ansphtera         Baetidae         20         4         1.765         Gathers         Scrapping           Ansphtera         Aeshnidae         3         0.000         Predators         Longleg           Cardulidae         5         0.000         Predators         Longleg           Zygoptera         Coenagrioidae         5         9         0.622         Predators           Calopterygidae         20         4         1.766         Filters         Webspinner           Tichoptera         Hydropsychidae         20         4         1.767         Filters         Webspinner           Tichoptera         Hydropsychidae         20         4         1.767         Filters         Sandsnailshell           Coleoptera         Dytoptatidae         2         5         0.147         Predators         Legitoceridae         1         4         0.000         Fredators         Edicous           Coleoptera         Dytopidae         2         5				6				he
Bivalvia         Canidae         12         7         1.235 Gathers         Backplate           Enhemeroptera         Baelidae         20         4         1.176 Gathers         Actioners           Anisoptera         Aeshnidae         3         0.000         Predators         Ionglag           Cordulegastridae         3         0.000         Predators         Ionglag           Zygoptera         Calopterygidae         3         5         0.000         Predators           Plecoptera         -         0.000         Predators         Iufianteera           Plecoptera         -         0.000         Fredators         Iufianteera           Plecoptera         -         0.000         Fredators         Iufianteera           Philopotamide         3         5         0.211 Predators         Iufianteera           Philopotamide         20         4         1.176 Filters         Webspinner           Trichoptera         Hydropschidae         20         4         0.000 Filters         Sandsnailshell           Celeptocendae         1         0.000 Gathers         Iufianteera         Iufianteera         Iufianteera           Colopytidae         2         5         0.417 Predators         S				0				<i>.</i> u
Ephemeroptera         Canidae         12         7         1.235 Gathers         Backplate           Heptagenidae         20         4         1.176 Gathers         Scrappers           Anisoptera         Aeshnidae         3         0.000 Predators         Iongleg           Cordulidae         3         0.000 Predators         Iongleg           Cordulegastridae         3         0.000 Predators         Iongleg           Zygoptera         Coenagricidae         5         9         0.662 Predators         Stantae           Zygoptera         Calopterygidae         3         0.000 Predators         Stantae         Predators         Stantae           Picoptera         Uptopsychidae         20         4         1.716 Filters         Webspinner           Trichoptera         Polycentropodidae         6         0.000 Filters         Ionglead         Ionglea	Bivalvia	7 moynade	44				Limper	
Baetidae         20         4         1.176         Gathers           Heptagenidae         4         0.000         Products           Cordulegastridae         3         0.000         Predators           Cordulegastridae         3         0.000         Predators           Libeliluidae         9         0.000         Predators           Zygoptera         Caloptergilodae         5         9         0.662           Pecoptera         -         0.000         Fredators         Stiffanteena           Pecoptera         -         0.000         Fredators         Stiffanteena           Phiopotamide         3         0.000         Fredators         Stiffanteena           Phiopotamide         3         0.000         Fredators         Stiffanteena           Coloptera         -         0.000         Fredators         Stiffanteena           Polycentropodidae         6         0.000         Fredators         Stiffanteena           Dytiscidae         2         -         0.010         Fredators         Stiffanteena           Colopredator         Dytypidae         2         8         0.437         Fredators         Stiffanteena           Dytiscidae         2		Canidae		7			Backplate	
Heptagenidae         4         0.000         Scraping           Anisoptera         Aeshindae         3         0.000         Predators         Longleg           Cordulidae         5         0.000         Predators         Longleg           Libeliuldae         3         0.000         Predators         Longleg           Zygoptera         Coenagrioidae         5         9         0.662         Predators           Calopterygidae         3         5         0.221         Predators         Stiffantaena           Piccoptera         Coenagrioidae         6         0.000         Filters         E           Polycentropodidae         6         0.000         Filters         E         E           Polycentropodidae         2         5         0.147         Predators         Sandsnailehel           Leptoceridae         1         4         0.000         Filters         E         E           Coleoptera         Dytopidae         2         5         0.147         Predators         E           Coleoptera         Dytopidae         2         0.000         Predators         Fiftie         E         Natyrea         E         Natyrea         E         Sandsnaiehelei </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>Baenplate</td> <td></td>		-					Baenplate	
Anisoptera         Aeshnidae         3         0.000         Predators           Cordulegastridae         5         0.000         Predators         Inorigination of the second							Scraping	
Cardulidae         5         0.000         Predators         Longleg           Cordulidae         3         0.000         Predators         Image: Construction of the construction of th	Anisoptera			3			1 3	
Cordulegastridae         3         0.000         Predators           Libelluldae         9         0.000         Predators           Zygoptera         Coenagrioidae         5         9         0.662         Predators           Plecoptera         0.000         0.021         Predators         Stiffantaena           Plecoptera         0.000         0.021         Predators         Stiffantaena           Plecoptera         0.000         Gastria         0.000         Stiffantaena           Polycentropodidae         0         0.000         Gastria         Polycentropodidae         1         0.000         Filters         Stiffantaena           Coleoptera         Droyopidae         2         5         0.147         Predators         Endicas         1         4         0.000         Filters         Stanailshell           Coleoptera         Droyopidae         2         5         0.147         Predators         Predacious         Predacious           Libelluldae         1         4         0.000         Predators         Predacious           Coleoptera         Droyopidae         2         6         0.000         Predators         Castria         Predacious         Predacious         Castri				5			Longleg	
Libellulidae         9         0.000         Predators           Zygoptera         Calopterygidae         3         5         9.221         Predators           Plecoptera         -         0.000         -         -           Trichoptera         Hydropsychidae         20         4         1.176         Filters         Webspinner           Philopotamide         6         0.000         Filters         -		Cordulegastridae		3				
Calopterygidae       3       5       0.221       Predators       Stiffantaena         Piecoptera       1.176       Filters       0.000       1       1         Trichoptera       Hydropsychidae       20       4       1.176       Filters       Webspinner         Philopotamide       3       0.000       Gathers       1       1       0.000       Filters       1         Leptoceridae       1       0.000       Gathers       1       1       0.000       Filters       1         Coleoptera       Dryopidae       2       5       0.147       Predators								
Piecoptera         0.000         0.000           Trichoptera         Hydropsychidae         20         4         1.176         Filters         Webspinner           Philopotamide         3         0.000         Gathers         Image: Construction of the second	Zygoptera	Coenagrioidae	5	9	0.662	Predators		
Trichoptera         Hydropsychidae         20         4         1.176         Filters         Webspinner           Philopotamide         3         0.000         Gathers </td <td></td> <td>Calopterygidae</td> <td>3</td> <td>5</td> <td></td> <td></td> <td>Stiffantaen</td> <td>а</td>		Calopterygidae	3	5			Stiffantaen	а
Philopotamide         3         0.000         Gathers           Polycentropodidae         6         0.000         Filters           Leptoceridae         1         0.000         Gathers           Coleoptera         Dryopidae         2         5         0.147         Predators         Longtoed           Dytiscidae         2         0.000         Predators         Longtoed         Predators         Predator								
Polycentropodidae         6         0.000         Filters         I           Leptoceridae         1         0.000         Gathers         I           Coleoptera         Dryopidae         2         5         0.147         Predators         Longtoed           Dytiscidae         2         0.000         Predators         Predators         Predators         Predators         Predators         Halipidae           Elmidae         1         4         0.059         Gathers         Riffle         I           Halipidae         1         4         0.000         Predators         Hairy revaluing           Psephenidae         4         0.000         Scathers         I         Vaterpenny           Gyrinidae         0.000         Fredators         4eyed         Diptera         0.000         Scathers         I           Culicidae         0.000         Stredators         Materpenny         I	Trichoptera		20				Webspinne	er
Leptoceridae         1         0.000         Gathers           Hydroptilidae         4         0.000         Filters         Sandsnalisheil           Coleoptera         Dryopidae         2         5         0.147         Predators         Longtoed           Dytiscidae         2         0.000         Predators         Predatous         Longtoed           Elmidae         1         4         0.058         Gathers         Riffe           Haliplidae         0.000         Predators         Predators         Hairycrawling           Gyrinidae         0.000         Predators         Hairycrawling           Diptera         Blood-red Chironomidae         2         8         0.235         Gathers           Culicidae         0         0.000         Predators         Mosquito         Image: Standard S								
Hydroptilidae         4         0.000         Filters         Sandsnailshell           Coleoptera         Dryopidae         2         5         0.147         Predators         Longtoed           Dytiscidae         2         0.000         Predators         Longtoed           Elmidae         1         4         0.059         Gathers         Riffe           Haliplidae         0.000         Predators         Hairycrawling           Psephenidae         4         0.000         Predators         Hairycrawling           Diptera         Blood-red Chironomidae         2         8         0.235         Gathers           Diptera         Other Chironomidae         2         6         0.176         Gathers           Culicidae         0.000         Predators         Kaeyd         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae         Image of the chironomidae				-				
Coleoptera         Dryopidae         2         5         0.147         Predators         Longtoed           Dytiscidae         2         0.000         Predators<				-				
Dytiscidae     2     0.000     Predacious       Elmidae     1     4     0.059     Gathers     Riffie       Haliplidae     0.000     Predators     Hairycrawling       Psephenidae     4     0.000     Predators     Hairycrawling       Gyrinidae     0.000     Predators     Hairycrawling       Diptera     Blood-red Chironomidae     2     8     0.235     Gathers       Culicidae     0.000     Stredders     Mosquito       Tabanidae     6     0.000     Fredators     Mosquito       Tabanidae     6     0.000     Predators     Mosquito       Ceratopogonidae     6     0.000     Filters     Blackfly       Ceratopogonidae     0.000     Gathers     Bitingmidge       Ostracoda     Corixidae     0.000     Naterboatmen       Nepidae     1     0.000     Stareboatmen       Nepidae     4     0.000     Stareboatmen       Nepidae     1     0.000     Stareboatmen       Nepidae     1     0.000     Stareboatmen       Bialidae     8     0.000     Stareboatmen       Nepidae     1     0.000     Stareboatmen       Nepidae     1     0.000     Stareboatmen   <								hell
Elmidae       1       4       0.059 Gathers       Riffle         Haliplidae       0.000 Predators       Hairycrawling         Psephenidae       4       0.000 Predators       4eyed         Diptera       Blood-red Chironomidae       2       8       0.235 Gathers         Other Chironomidae       2       6       0.176 Gathers       Mosquito         Culicidae       0.000 Predators       Mosquito       0.000 Predators       Mosquito         Tipulidae       3       0.000 Predators       Mosquito       0.000 Predators       Mosquito         Caractopogonidae       6       0.000 Predators       Mosquito       0.000 Predators       Mosquito         Caratopogonidae       6       0.000 Predators       Blackfly       0.000 Gathers       Blackfly         Ostracoda       0.000 Predators       Waterboarnen       0.000 Predators       Waterboarnen         Mepidae       1       0.000 Predators       Waterboarnen       Materboarnen         Gerridae       0.000 Predators       Waterboarnen       Predators Crayfish         Annelid       Asellidae       8       0.000 Predators       Shrimp         Decapoda       6       0.000 Predators       Crayfish       Annelid       Mostera	Coleoptera			5				
Haliplidae       0.000       Predators       Hairycrawling         Psephenidae       4       0.000       Predators       Waterpenny         Diptera       Blood-red Chironomidae       2       8       0.235       Gathers         Other Chironomidae       2       6       0.176       Gathers       0.000       Predators       4eyed         Diptera       Other Chironomidae       2       6       0.176       Gathers       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       0.000       Stredders       Nepidae       1       0.000       Stredders       Networthere       Nepidae       1       0.000       Stredders       Networthere       Nepidae       3       0.000       Stredders       Networthere       Networthere       Networthere       Networthere       Networthere       Networthere       Networthere       Networthere       Netwo								5
Psephenidae       4       0.000       Scrapers       Waterpenny         Diptera       Blood-red Chironomidae       2       8       0.235       Gathers         Other Chironomidae       2       6       0.176       Gathers       1         Culicidae       0.000       Predators       Keyed       1         Tipulidae       3       0.000       Predators       Cranefly         Tabanidae       6       0.000       Predators       Cranefly         Ceratopogonidae       6       0.000       Scathers       Bitackfy         Ceratopogonidae       1       0.000       Scathers       Bitackfy         Cotrixidae       1       0.000       Scathers       Bitackfy         Gerridae       0.000       Scathers       Bitagmidge         Simulidae       1       0.000       Scathers       Bitagmidge         Ostracoda       1       0.000       Scathers       Bitagmidge         Simulidae       1       0.000       Scathers       Bitagmidge         Ostracoda       1       0.000       Scathers       Sitackfirder         Boododa       Asellidae       1       0.000       Scathers       Sitackfirder			1	4				
Gyrinidae0.000Predators4eyedDipteraBlood-red Chironomidae280.235GathersOther Chironomidae260.176Gathers1Culicidae0.000ShreddersMosquito1Tabanidae60.000PredatorsCraneflyTabanidae60.000FiltersBlackflySimulidae60.000GathersBitingmidgeOstracodaCeratopogonidae60.000FathersOstracodaCorixidae0.000Scavenger DaphniaSeedshirHemipteraCorixidae0.000PredatorsWaterboatmenNepidae10.000ScavengerDaphniaSeedshirHemipteraCorixidae0.000PredatorsWaterboatmenIsopodaAsellidae80.000ShreddersAmphipod40.000ShreddersShrimpDecapoda60.000PredatorsCrayfishAnnelidHirudinea20.000LeechMegalopteraSialidae40.000DosenflyNematomorpha10.000ParasiteHorsehairTubellaria0.0161EPT/Chironomidae1EPTI Ack3.0001EPTIndex3.000Community Similarity IndicesCool1CoolCommunity Similarity IndicesCool1CoolCommunity Similarity IndicesCool1CoolCommunity Similar				4				
Diptera       Blood-red Chironomidae       2       8       0.235       Gathers         Other Chironomidae       2       6       0.176       Gathers       0.000         Culicidae       0.000       Shredders       Mosquito         Tipulidae       3       0.000       Predators       Cranefly         Simulidae       6       0.000       Fredators       Blackfy         Ceratopogonidae       6       0.000       Scavenger       DaphniaSeedshrir         Hemptera       Corixidae       0.000       Scavenger       DaphniaSeedshrir         Hemptera       Corixidae       0.000       Predators       Waterboarmen         Isopoda       Asellidae       8       0.000       Predators       Waterstrider         Isopoda       Asellidae       8       0.000       Straeders       Pillug       Amphipod         Decapoda       4       0.000       Straeders       Strinp       Dosenfly         Megaloptera       Sialidae       4       0.000       Leech       Megaloptera         Megaloptera       Sialidae       4       0.000       Scavenger       Planaria         Tubellaria       0.016       EPT/Chironomidae       0.000 <t< td=""><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td>у</td></t<>				4				у
Other Chironomidae       2       6       0.176       Gathers         Culicidae       0.000       Shredders       Mosquito         Tipulidae       3       0.000       Predators       Cranefly         Tabanidae       6       0.000       Filters       Blackfly         Ceratopogonidae       6       0.000       Scavenger       DaphniaSeedshify         Ostracoda       0.000       Ceratore       Bitingmidge       DaphniaSeedshify         Veridae       1       0.000       Scavenger       DaphniaSeedshify         Isopoda       Asellidae       8       0.000       Predators       Waterboarmen         Sigopda       Asellidae       8       0.000       Predators       Waterboarmen         Isopoda       Asellidae       8       0.000       Scavenger       Pillug         Amphipod       4       0.000       Shredders       Shrimp         Decapoda       4       0.000       Leech       Megaloptera         Annelid       Hirudinea       2       0.000       Predators       Crayfish         Annelid       Hirudinea       2       0.000       Predators       Crayfish         Annelid       Hirudinea <td< td=""><td>Diptora</td><td></td><td>2</td><td>0</td><td></td><td></td><td>4eyea</td><td></td></td<>	Diptora		2	0			4eyea	
Culicidae0.000ShreddersMosquitoTipulidae30.000PredatorsCraneflyTabanidae60.000PredatorsItingmidgeSimulidae60.000GathersBlackflyCeratopogonidae60.000ScavengerDaphniaSeedshrirHemipteraCorixidae0.000PredatorsWaterboatmenNepidae10.000SreddersWaterboatmenGerridae0.000ShreddersWaterstriderIsopodaAsellidae80.000ShreddersAmphipod40.000ShreddersShrimpDecapoda60.000LeechMegalopteraAnnelidHirudinea20.000PredatorsTubellaria10.000PredatorsDobsenflyMegalopteraSialidae40.000PredatorsTAXA RICHNESS15ItingmidgeEPT/ChironomidaeItingmidgeScraper/Filters0.016EPT/Chironomidae13.000EPT IndexCommunity Similarity Indices0.0330.033ItingmidgeItingmidge	Diptera							
Tipulidae30.000PredatorsCraneflyTabanidae60.000PredatorsImage: Strange Stran			2	0			Mosquito	
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Ostracoda       0.000       Scavenger       DaphniaSeedshrir         Hemiptera       Corixidae       0.000       Predators       Waterboatmen         Nepidae       1       0.000       Predators       Waterboatmen         Isopoda       Gerridae       0.000       Scravenger       Diblug         Amphipod       4       0.000       Shredders       Pillbug         Decapoda       6       0.000       Shredders       Shrimp         Annelid       Hirudinea       2       0.000       Predators       Cayfish         Annelid       Hirudinea       2       0.000       Predators       Dosenfly         Nematomorpha       0.000       Predators       Dosenfly       Nemators         Tubellaria       0.000       Scavenger       Planaria         TAXA RICHNESS       15       Issect       Issect         FBI       5.206       Issect       Issect       Issect         Scraper/Filters       0.016       Issect       Issect       Issect         EPT/Chironomidae       3.000       Issect       Issect       Issect         Community Similarity Indices       0.033       Issect       Issect       Issect								e
Nepidae10.000Gerridae0.000PredatorsIsopodaAsellidae80.000Amphipod40.000Decapoda60.000AnnelidHirudinea20.000MegalopteraSialidae40.000Nematomorpha0.000PredatorsDosenflyTubellaria0.000PredatorsDobsenflyTAXA RICHNESS1515HorsehairFBI5.2069.01614Scraper/Filters0.01614EPT Index3.00014Community Similarity Indices0.03314	Ostracoda	1 0			0.000			
Gerridae0.000PredatorsWaterstriderIsopodaAsellidae80.000ShreddersPillbugAmphipod40.000ShreddersShrimpDecapoda60.000PredatorsCrayfishAnnelidHirudinea20.000LeechMegalopteraSialidae40.000PredatorsDobsenflyNematomorpha0.000PredatorsDobsenflyDobsenflyTubellaria0.000ScavengerPlanariaTAXA RICHNESS1515InterventionInterventionFBI5.206InterventionInterventionInterventionScraper/Filters0.016InterventionInterventionInterventionPT Index3.000InterventionInterventionInterventionCommunity Similarity Indices0.033InterventionIntervention	Hemiptera	Corixidae			0.000	Predators	Waterboatr	men .
IsopodaAsellidae80.000ShreddersPillbugAmphipod40.000ShreddersShrimpDecapoda60.000PredatorsCrayfishAnnelidHirudinea20.000LeechMegalopteraSialidae40.000PredatorsDobsenflyNematomorpha0.000PredatorsDobsenflyNematomorphaTubellaria0.000ScavengerPlanariaTAXA RICHNESS15111FBI5.206111Scraper/Filters0.01611EPT/Chironomidae13.00011% Contribution of Dominant Family0.37311EPT Index3.00011COMM0.033111			1		0.000			
Amphipod40.000ShreddersShrimpDecapoda60.000PredatorsCrayfishAnnelidHirudinea20.000LeechMegalopteraSialidae40.000PredatorsDobsenflyNematomorpha0.000ParasiteHorsehairTubellaria0.000ScavengerPlanariaTAXA RICHNESS1501000FBI5.20610001000Scraper/Filters0.0161000EPT/Chironomidae13.0001000% Contribution of Dominant Family0.3731000EPT Index3.0001000Community Similarity Indices0.0331000								er
Decapoda60.000PredatorsCrayfishAnnelidHirudinea20.000LeechMegalopteraSialidae40.000PredatorsDobsenflyNematomorpha0.000ParasiteHorsehairTubellaria0.000ScavengerPlanariaTAXA RICHNESS151515FBI5.2061515Scraper/Filters0.01614EPT/Chironomidae13.00013.000% Contribution of Dominant Family0.37314EPT Index3.00014CPOM0.03314		Asellidae						
AnnelidHirudinea20.000LeechMegalopteraSialidae40.000PredatorsDobsenflyNematomorpha0.000ParasiteHorsehairTubellaria0.000ScavengerPlanariaTAXA RICHNESS150.000ScavengerFBI5.2060.0160.000Scraper/Filters0.0160.016EPT/Chironomidae13.0000.373EPT Index3.0000.0330.033								
MegalopteraSialidae40.000PredatorsDobsenflyNematomorpha0.000ParasiteHorsehairTubellaria0.000ScavengerPlanariaTAXA RICHNESS150.000ScavengerFBI5.20600Scraper/Filters0.0160EPT/Chironomidae13.0000.373EPT Index3.0000.373Community Similarity Indices0.0330				6				
Nematomorpha0.000ParasiteHorsehairTubellaria0.000ScavengerPlanariaTAXA RICHNESS15FBI5.206Scraper/Filters0.016EPT/Chironomidae13.000% Contribution of Dominant Family0.373EPT Index3.000Community Similarity Indices0.033			2					
Tubellaria0.000 Scavenger PlanariaTAXA RICHNESS15FBI5.206Scraper/Filters0.016EPT/Chironomidae13.000% Contribution of Dominant Family0.373EPT Index3.000Community Similarity Indices0.033	0 1	Sialidae		4				
TAXA RICHNESS         15         0         0           FBI         5.206              Scraper/Filters         0.016              EPT/Chironomidae         13.000               % Contribution of Dominant Family         0.373                EPT Index         3.000                 Community Similarity Indices <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
FBI         5.206         Image: Constraint of the system o	IUDEIIAMA				0.000	Scavenger	rianaria	
FBI         5.206         Image: Constraint of the system o		15						
Scraper/Filters         0.016         Image: Constraint of								
EPT/Chironomidae         13.000         Image: Constribution of Dominant Family         0.373         Image: Constribution of Dominant Family         0.373         Image: Constribution of Dominant Family         0.373         Image: Constribution of Dominant Family         0.373         Image: Constribution of Dominant Family         0.373         Image: Constribution of Dominant Family         0.373         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family         0.033         Image: Constribution of Dominant Family								
% Contribution of Dominant Family     0.373     Image: Contribution of Dominant Family     0.373       EPT Index     3.000     Image: Contribution of Dominant Family     Image: Contribution of Dominant Family     Image: Contribution of Dominant Family       Community Similarity Indices     Image: Contribution of Dominant Family     Image: Contribution of Dominant Family     Image: Contribution of Dominant Family       CPOM     0.033     Image: Contribution of Dominant Family     Image: Contribution of Dominant Family     Image: Contribution of Dominant Family								
EPT Index     3.000     Image: Community Similarity Indices       CPOM     0.033     Image: CPOM								
Community Similarity Indices         Image: CPOM         0.033         Image: CPOM								
CPOM 0.033 0 0.033		0.000						
		0.033						
I otal number Collected 118	Total Number Collected	118						

PC16	8/5/1999						
			• •				
Periphyton	1		Slimes	0			
Filamentous Algae	2		Macroinvertebrates	3			
Macrophytes	0		Fish	3			
Maaraba	nthos Quailitative Sample I	iet					
		lst					
ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI	Feeding Group		
Oligochaeta		1		0.000	r coung croup		
Gastropoda	Physa	84	8		Scrapers	Lefthanded	
	Planorbidae	-	-	0.000	Scrapers	Ramshorn	
	Lymnaeidae		6		Scrapers	Righthande	ed
	Ancylidae	5		0.000	Scrapers	Limpet	
Bivalvia					Filters		
Ephemeroptera	Canidae		7		Gathers	Backplate	
	Baetidae	2	4		Gathers		
• • •	Heptageniidae		4		Scrapers	Scraping	
Anisoptera	Aeshnidae	6	3		Predators		
	Corduliidae		5		Predators	Longleg	
	Cordulegastridae		3		Predators		
Zugentere	Libellulidae	14	9		Predators		
Zygoptera	Coenagrioidae Calopterygidae	14 3	<u>9</u> 5		Predators Predators	Stiffantaen	2
Plecoptera	Calopterygidae	3	3	0.123		Junaniaen	a
Trichoptera	Hydropsychidae	1	4		Filters	Webspinne	r
	Philopotamide		3		Gathers	vvcbopinine	1
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers		
	Hydroptilidae		4		Filters	Sandsnails	hell
Coleoptera	Dryopidae	9	5	0.369	Predators	Longtoed	
	Dytiscidae				Predators	Predacious	
	Elmidae	3	4		Gathers	Riffle	
	Haliplidae				Predators	Hairycrawli	<u> </u>
	Psephenidae		4	0.000	Scrapers	Waterpenn	у
	Gyrinidae				Predators	4eyed	
Diptera	Blood-red Chironomidae		8		Gathers		
	Other Chironomidae Culicidae		6		Gathers Shredders	Magguite	
	Tipulidae		3		Predators	Mosquito Cranefly	
	Tabanidae		6		Predators	Granelly	
	Simulidae		6		Filters	Blackfly	
	Ceratopogonidae		6	0.000	Gathers	Bitingmidge	9
Ostracoda	oolatopogolliaao		•		Scavengers	DaphniaSe	
Hemiptera	Corixidae	1			Predators	Waterboat	
	Nepidae			0.000			
	Gerridae				Predators	Waterstride	er
Isopoda	Asellidae		8		Shredders	Pillbug	
Amphipod			4		Shredders	Shrimp	
Decapoda			6		Predators	Crayfish	
Annelid	Hirudinea		A	0.000		Leech	
Megaloptera Nematomorpha	Sialidae		4		Predators Parasite	Dobsenfly Horsehair	
Tubellaria					Scavengers	Planaria	
				0.000	Coaverigers	i iailaila	
TAXA RICHNESS	11						
FBI	7.377						
Scraper/Filters	89.000	1					
EPT/Chironomidae	#DIV/0!	3/0					
% Contribution of Dominant Family	0.651						
EPT Index	2.000						
Community Similarity Indices							
СРОМ	0.016						
Total Number Collected	129						

SA1	8/6/1999						
	6,6,1000						
Periphyton	1		Slimes	0			
Filamentous Algae	3		Macroinvertebrates	2			
Macrophytes	0		Fish	2			
inaciopitytes	0		F1511	2			
Maaraba	nthaa Quailitatiya Sampla	Liet					
	nthos Quailitative Sample	LISI					
00050				501			
ORDER	FAMILY	COUNT	TOLERANCE VALUES				
Oligochaeta				0.000	-		
Gastropoda	Physa	4	8			Lefthanded	
	Planorbidae				Scrapers	Ramshorn	
	Lymnaeidae		6			Righthande	ed
	Ancylidae	1				Limpet	
Bivalvia					Filters		
Ephemeroptera	Canidae	2	7	0.112	Gathers	Backplate	
	Baetidae		4	0.000	Gathers		
	Heptageniidae		4	0.000	Scrapers	Scraping	
Anisoptera	Aeshnidae		3	0.000	Predators		
	Corduliidae	İ	5			Longleg	
	Cordulegastridae	1	3		Predators		
	Libellulidae	t	9		Predators		
Zygoptera	Coenagrioidae	1	9		Predators		
	Calopterygidae	- '	5			Stiffantaen	2
Plecoptera	Caloptel ygidae		5	0.000		Sunantaen	a
Trichoptera	Hydropoyobidoo	4	4			Webspinne	
Пспортега	Hydropsychidae Philopotamide	4			Gathers	webspinne	÷I
			3				
	Polycentropodidae		6		Filters		
	Leptoceridae		1		Gathers		
	Hydroptilidae		4		Filters	Sandsnails	hell
Coleoptera	Dryopidae	16	5		Predators		
	Dytiscidae					Predacious	
	Elmidae	2	4			Riffle	
	Haliplidae			0.000	Predators	Hairycrawli	ng
	Psephenidae		4	0.000	Scrapers	Waterpenn	у
	Gyrinidae			0.000	Predators	4eyed	
Diptera	Blood-red Chironomidae	36	8	2.304	Gathers		
	Other Chironomidae	60	6	2.880	Gathers		
	Culicidae			0.000	Shredders	Mosquito	
	Tipulidae		3			Cranefly	
	Tabanidae		6		Predators	- ,	
	Simulidae		6			Blackfly	
	Ceratopogonidae		6			Bitingmidge	2
Ostracoda	Cerutopogonidae		ŭ			DaphniaSe	
	Corixidae					Waterboat	
Hemiptera	Nepidae			0.000	TEUDIOIS	vvalerbuali	
	Gerridae				Drodeters	Waterstride	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
la su s da	-						#1
Isopoda	Asellidae	ļ	8		Shredders		
Amphipod			4		Shredders		
Decapoda		<u> </u>	6		Predators		
Annelid	Hirudinea	2		0.000		Leech	
Megaloptera	Sialidae		4		Predators		
Nematomorpha						Horsehair	
Tubellaria				0.000	Scavenger	Planaria	
TAXA RICHNESS	10						
FBI	6.456						
Scraper/Filters	1.250						
EPT/Chironomidae	0.063						
% Contribution of Dominant Family	0.469						
EPT Index	2.000						
Community Similarity Indices	2.000						
CPOM	0.048						
Total Number Collected	128						
	128						

SC1	8/11/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroin
Macrophytes	0	Fish

# nvertebrates

0 2 2

#### Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		I
Oligochaeta				0.000		İ
Gastropoda	Physa		8	0.000	Scrapers	Lefthanded
•	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia		33		0.000	Filters	l '
Ephemeroptera	Canidae	4	7	0.269	Gathers	Backplate
· ·	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
· ·	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9		Predators	Ī
Zygoptera	Coenagrioidae	34	9	2.942	Predators	İ
	Calopterygidae	1	5			Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	28	4	1.077	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	İ <sup>·</sup>
	Polycentropodidae		6	0.000	Filters	İ
	Leptoceridae		1	0.000	Gathers	İ
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae					Predacious
	Elmidae	7	4	0.269	Gathers	Riffle
	Haliplidae	1		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	2	8	0.154	Gathers	
•	Other Chironomidae	18	6	1.038	Gathers	Ī
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		Ī
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae	3	8	0.231	Shredders	Pillbug
Amphipod			4	0.000	Shredders	Shrimp
Decapoda		1	6	0.058	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae	6	4	0.231	Predators	Dobsenfly
Nematomorpha				0.000	Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	12	
FBI	6.317	
Scraper/Filters	0.000 0/61	
EPT/Chironomidae	1.600	
% Contribution of Dominant Family	0.246	
EPT Index	2.000	
Community Similarity Indices		
CPOM	0.050	
Total Number Collected	138	

### SC1

SD1	8/13/1999	
Periphyton	2	Slimes
Filamentous Algae	1	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		I
Oligochaeta				0.000		Ť
Gastropoda	Physa	8	8		Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia					Filters	1 '
Ephemeroptera	Canidae		7		Gathers	Backplate
• •	Baetidae		4	0.000	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	Ť
Zygoptera	Coenagrioidae		9		Predators	Ť
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	4	4	0.142	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	t i
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	6				Predacious
	Elmidae	1	4		Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	93	8		Gathers	]
	Other Chironomidae	6	6		Gathers	]
	Culicidae	1			Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	I
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae	1	8		Shredders	
Amphipod			4		Shredders	
Decapoda			6	0.000	Predators	
Annelid	Hirudinea	1		0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 3 2

TAXA RICHNESS	9
FBI	7.717
Scraper/Filters	2.000
EPT/Chironomidae	0.040
% Contribution of Dominant Family	0.769
EPT Index	1.000
Community Similarity Indices	
СРОМ	0.017
Total Number Collected	121

### SD1

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Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

#### Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		+
Gastropoda	Physa	16	8		Scrapers	Lefthanded
	Planorbidae				Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae	1	-		Scrapers	Limpet
Bivalvia		14			Filters	
Ephemeroptera	Canidae	10	7		Gathers	Backplate
	Baetidae		4		Gathers	
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae	1	3	0.029	Predators	
-	Corduliidae	2	5	0.098	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9		Predators	1
Zygoptera	Coenagrioidae	3	9	0.265	Predators	1
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	25	4	0.980	Filters	Webspinner
· · ·	Philopotamide		3	0.000	Gathers	1 .
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
•	Dytiscidae	11				Predacious
	Elmidae	14	4	0.549	Gathers	Riffle
	Haliplidae			0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	2	8	0.157	Gathers	
	Other Chironomidae	21	6	1.235	Gathers	
	Culicidae	1		0.000	Shredders	Mosquito
	Tipulidae	2	3		Predators	Cranefly
	Tabanidae	3	6	0.176	Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae		8	0.000	Shredders	Pillbug
Amphipod			4	0.000	Shredders	Shrimp
Decapoda			6	0.000	Predators	Crayfish
Annelid	Hirudinea	2		0.000		Leech
Megaloptera	Sialidae	3	4	0.118	Predators	Dobsenfly
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	17	
FBI	5.608	
Scraper/Filters	0.436	
EPT/Chironomidae	1.522	
% Contribution of Dominant Family	0.191	
EPT Index	2.000	
Community Similarity Indices		
CPOM	0.000	0/60
Total Number Collected	13	81

#### SF1

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Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	2	Fish

#### Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta				0.000		1
Gastropoda	Physa	19	8	1.382	Scrapers	Lefthanded
-	Planorbidae	-			Scrapers	Ramshorn
	Lvmnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia				0.000	Filters	
Ephemeroptera	Canidae	11	7		Gathers	Backplate
-	Baetidae	2	4		Gathers	1 '
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae	2	3		Predators	
	Corduliidae		5		Predators	Lonalea
	Cordulegastridae	1	3		Predators	33
	Libellulidae		9		Predators	+
Zygoptera	Coenagrioidae	27	9		Predators	ł
	Calopterygidae	2	5			Stiffantaena
Plecoptera	Calopterygidae	2		0.001		otinantaena
Trichoptera	Hydropsychidae		4		Filters	Webspinner
monopteru	Philopotamide		3		Gathers	Webspinner
	Polycentropodidae		6		Filters	ł
	Leptoceridae		1		Gathers	+
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae	2	5			Predacious
	Elmidae	7	4		Gathers	Riffle
	Haliplidae	17	7			Hairycrawling
	Psephenidae	1	4		Scrapers	Waterpenny
	Gvrinidae		7		Predators	
Diptera	Blood-red Chironomidae	8	8		Gathers	4eyeu
Diptera	Other Chironomidae	26	6		Gathers	
	Culicidae	20	0		Shredders	Mosquito
	Tipulidae		3		Predators	
	Tabanidae		6		Predators	Cranelly
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	Ceratopogonidae		0			DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Brodators	Waterboatmen
Tiempleia	Nepidae			0.000	Fieualois	Walerboalmen
	Gerridae				Produtors	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod	Aselliuae		<u> </u>		Shredders	
Decapoda		<u> </u>	6		Predators	
Annelid	Hirudinea	<u> </u>	U	0.000		Leech
		4	A			
Megaloptera	Sialidae	4	4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenger	Pianaria

TAXA RICHNESS	14	
FBI	6.973	
Scraper/Filters	#DIV/0!	20/0
EPT/Chironomidae	0.382	
% Contribution of Dominant Family	0.209	
EPT Index	2.000	
Community Similarity Indices		
СРОМ	0.000	0/60
Total Number Collected		129

#### SF2

UN1	8/12/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	2	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		2		0.000		Ť
Gastropoda	Physa	32	8	4.339	Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		1			Filters	1 .
Ephemeroptera	Canidae		7	0.000	Gathers	Backplate
	Baetidae		4		Gathers	Ī
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	Ī
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	Ī
	Libellulidae		9	0.000	Predators	]
Zygoptera	Coenagrioidae	2	9		Predators	]
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	]
	Polycentropodidae		6		Filters	I
	Leptoceridae		1		Gathers	]
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae	48				Predacious
	Elmidae	13	4		Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae	1	4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	1	8		Gathers	ļ
	Other Chironomidae	4	6		Gathers	
	Culicidae	1			Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda	-					DaphniaSeedshrimp
Hemiptera	Corixidae	2				Waterboatmen
	Nepidae			0.000		
	Gerridae	2				Waterstrider
Isopoda	Asellidae	2	8		Shredders	
Amphipod		4	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea	2		0.000		Leech
Megaloptera	Sialidae	L .	4		Predators	
Nematomorpha		1			Parasite	Horsehair
Tubellaria				0.000	Scavenger	Planaria

0 1 2

TAXA RICHNESS	16
FBI	6.678
Scraper/Filters	33.000
EPT/Chironomidae	0.000 0/5
% Contribution of Dominant Family	0.407
EPT Index	0.000
Community Similarity Indices	
CPOM	0.183
Total Number Collected	118

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0 2 2

Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

#### Macrobenthos Quailitative Sample List

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta				0.000		4
Gastropoda	Physa	5	8		Scrapers	Lefthanded
	Planorbidae	-			Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae				Scrapers	Limpet
Bivalvia	,				Filters	
Ephemeroptera	Canidae	12	7		Gathers	Backplate
• •	Baetidae	1	4	0.034	Gathers	1 .
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
•	Corduliidae	1	5	0.043	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	1
Zygoptera	Coenagrioidae		9		Predators	1
	Calopterygidae	17	5	0.733	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	40	4		Filters	Webspinner
	Philopotamide	1	3	0.026	Gathers	
	Polycentropodidae	4	6	0.207	Filters	T
	Leptoceridae		1	0.000	Gathers	
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
	Dytiscidae	2				Predacious
	Elmidae	1	4		Gathers	Riffle
	Haliplidae	10		0.000	Predators	Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	5	8		Gathers	
	Other Chironomidae	19	6		Gathers	
	Culicidae				Shredders	
	Tipulidae	2	3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		-
	Gerridae	1				Waterstrider
Isopoda	Asellidae	6	8		Shredders	
Amphipod			4		Shredders	
Decapoda		<u> </u>	6		Predators	
Annelid	Hirudinea	1		0.000		Leech
Megaloptera	Sialidae	2	4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

TAXA RICHNESS	18	
FBI	5.388	
Scraper/Filters	0.114	
EPT/Chironomidae	2.417	
% Contribution of Dominant Family	0.308	
EPT Index	5.000	
Community Similarity Indices		
СРОМ	0.333	(20/60)
Total Number Collected	130	

## SF3

WD1	8/12/1999	
Periphyton	2	Slimes
Filamentous Algae	2	Macroinvertebrates
Macrophytes	0	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta				0.000		4
Gastropoda	Physa	6	8	0.500	Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		3			Filters	1 '
Ephemeroptera	Canidae	44	7	3.208	Gathers	Backplate
	Baetidae	4	4	0.167	Gathers	
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae	2	3		Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	T
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae		9		Predators	
	Calopterygidae		5	0.000	Predators	Stiffantaena
Plecoptera				0.000		
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3		Gathers	
	Polycentropodidae		6		Filters	
	Leptoceridae		1		Gathers	
	Hydroptilidae		4		Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae	23				Predacious
	Elmidae	22	4		Gathers	Riffle
	Haliplidae					Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	4	8		Gathers	
	Other Chironomidae	10	6		Gathers	-
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	-
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae	12				Waterboatmen
	Nepidae			0.000		
	Gerridae					Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod		4	4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea	13		0.000		Leech
Megaloptera	Sialidae		4		Predators	
Nematomorpha					Parasite	Horsehair
Tubellaria				0.000	Scavenge	Planaria

0 2 2

TAXA RICHNESS	12
FBI	5.979
Scraper/Filters	2.000
EPT/Chironomidae	3.429
% Contribution of Dominant Family	0.299
EPT Index	2.000
Community Similarity Indices	
СРОМ	0.033
Total Number Collected	147

## WD1

WF1	8/16/1999	
Periphyton	1	Slimes

Periphyton	1	Slimes	
Filamentous Algae	2	Macroinvertebrates	
Macrophytes	1	Fish	

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		1
Oligochaeta		1		0.000		Ī
Gastropoda	Physa	4	8	0.241	Scrapers	Lefthanded
	Planorbidae			0.000	Scrapers	Ramshorn
	Lymnaeidae	1	6	0.045	Scrapers	Righthanded
	Ancylidae			0.000	Scrapers	Limpet
Bivalvia		11		0.000	Filters	Ī
Ephemeroptera	Canidae	47	7	2.474	Gathers	Backplate
	Baetidae	3	4	0.090	Gathers	t i
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
· ·	Corduliidae		5		Predators	Longleg
	Cordulegastridae	1	3	0.023	Predators	1
	Libellulidae		9	0.000	Predators	Ī
Zygoptera	Coenagrioidae	9	9	0.609	Predators	Ī
	Calopterygidae	11	5	0.414	Predators	Stiffantaena
Plecoptera				0.000		Ī
Trichoptera	Hydropsychidae	22	4	0.662	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	Ī
	Polycentropodidae		6	0.000	Filters	Ī
	Leptoceridae		1	0.000	Gathers	Ī
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
· ·	Dytiscidae	3		0.000	Predators	Predacious
	Elmidae	2	4		Gathers	Riffle
	Haliplidae	2		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae	1	8	0.060	Gathers	
	Other Chironomidae	31	6		Gathers	]
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6	0.000	Predators	]
	Simulidae	1	6	0.045	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda						DaphniaSeedshrimp
Hemiptera	Corixidae					Waterboatmen
	Nepidae			0.000		
	Gerridae			0.000	Predators	Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda			6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha		2			Parasite	Horsehair
Tubellaria		3		0.000	Scavenge	Planaria

0 2 2

TAXA RICHNESS	18	
FBI	6.120	
Scraper/Filters	0.147	
EPT/Chironomidae	2.250	
% Contribution of Dominant Family	0.303	
EPT Index	3.000	
Community Similarity Indices		
CPOM	0.000	0/60
Total Number Collected	1	55

# 

WF2	8/15/1999	
Periphyton	2	Slimes
Filamentous Algae	3	Macroinvertebrates
Macrophytes	1	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		Т
Oligochaeta		1		0.000		1
Gastropoda	Physa	4	8		Scrapers	Lefthanded
	Planorbidae		-		Scrapers	Ramshorn
	Lvmnaeidae		6		Scrapers	Righthanded
	Ancylidae	1			Scrapers	Limpet
Bivalvia		3			Filters	- '
Ephemeroptera	Canidae	2	7		Gathers	Backplate
· ·	Baetidae		4		Gathers	1 '
	Heptageniidae		4	0.000	Scrapers	Scraping
Anisoptera	Aeshnidae		3	0.000	Predators	
	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3	0.000	Predators	
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae	7	9		Predators	
	Calopterygidae	1	5	0.045	Predators	Stiffantaena
Plecoptera				0.000		1
Trichoptera	Hydropsychidae	43	4	1.550	Filters	Webspinner
	Philopotamide		3	0.000	Gathers	
	Polycentropodidae		6	0.000	Filters	
	Leptoceridae		1	0.000	Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5	0.000	Predators	Longtoed
· ·	Dytiscidae	3				Predacious
	Elmidae	6	4	0.216	Gathers	Riffle
	Haliplidae	5		0.000	Predators	Hairycrawling
	Psephenidae		4	0.000	Scrapers	Waterpenny
	Gyrinidae			0.000	Predators	4eyed
Diptera	Blood-red Chironomidae		8	0.000	Gathers	
	Other Chironomidae	48	6	2.595	Gathers	
	Culicidae			0.000	Shredders	Mosquito
	Tipulidae		3	0.000	Predators	Cranefly
	Tabanidae		6	0.000	Predators	
	Simulidae		6	0.000	Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda				0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae			0.000	Predators	Waterboatmen
	Nepidae			0.000		T
	Gerridae					Waterstrider
Isopoda	Asellidae		8	0.000	Shredders	Pillbug
Amphipod			4		Shredders	
Decapoda			6	0.000	Predators	Crayfish
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4	0.000	Predators	Dobsenfly
Nematomorpha		1		0.000	Parasite	Horsehair
Tubellaria		3		0.000	Scavenge	Planaria

0 2 2

TAXA RICHNESS	14	
FBI	5.387	
Scraper/Filters	0.109	
EPT/Chironomidae	0.938	
% Contribution of Dominant Family	0.375	
EPT Index	2.000	
Community Similarity Indices		
СРОМ	0.000	0/60
Total Number Collected	1	28

# W/E2

WF3	8/15/1999	
Periphyton	2	Slimes
Filamentous Algae	3	Macroinvertebrates
Macrophytes	1	Fish

ORDER	FAMILY	COUNT	TOLERANCE VALUES	FBI		T
Oligochaeta		1		0.000		1
Gastropoda	Physa	2	8		Scrapers	Lefthanded
	Planorbidae	-			Scrapers	Ramshorn
	Lymnaeidae		6		Scrapers	Righthanded
	Ancylidae		Ŭ		Scrapers	Limpet
Bivalvia	7	1			Filters	
Ephemeroptera	Canidae	-	7		Gathers	Backplate
	Baetidae	1	4		Gathers	
	Heptageniidae		4		Scrapers	Scraping
Anisoptera	Aeshnidae		3		Predators	
•	Corduliidae		5	0.000	Predators	Longleg
	Cordulegastridae		3		Predators	
	Libellulidae		9	0.000	Predators	
Zygoptera	Coenagrioidae	40	9		Predators	
	Calopterygidae	1	5	0.069	Predators	Stiffantaena
Plecoptera				0.000		1
Trichoptera	Hydropsychidae		4		Filters	Webspinner
	Philopotamide		3	0.000	Gathers	
	Polycentropodidae		6	0.000	Filters	1
	Leptoceridae		1		Gathers	1
	Hydroptilidae		4	0.000	Filters	Sandsnailshell
Coleoptera	Dryopidae		5		Predators	
	Dytiscidae	21				Predacious
	Elmidae	2	4		Gathers	Riffle
	Haliplidae	3				Hairycrawling
	Psephenidae		4		Scrapers	Waterpenny
	Gyrinidae				Predators	4eyed
Diptera	Blood-red Chironomidae	5	8		Gathers	
	Other Chironomidae	20	6		Gathers	
	Culicidae				Shredders	
	Tipulidae		3		Predators	Cranefly
	Tabanidae		6		Predators	
	Simulidae		6		Filters	Blackfly
	Ceratopogonidae		6		Gathers	Bitingmidge
Ostracoda		5		0.000	Scavenge	DaphniaSeedshrimp
Hemiptera	Corixidae	1			Predators	Waterboatmen
	Nepidae			0.000		
	Gerridae		-			Waterstrider
Isopoda	Asellidae		8		Shredders	
Amphipod			4		Shredders	
Decapoda		1	6		Predators	
Annelid	Hirudinea			0.000		Leech
Megaloptera	Sialidae		4			Dobsenfly
Nematomorpha		1			Parasite	Horsehair
Tubellaria		2		0.000	Scavenge	Pianaria

0 2 2

TAXA RICHNESS	16	
FBI	7.764	
Scraper/Filters	2.000	
EPT/Chironomidae	0.040	
% Contribution of Dominant Family	0.374	
EPT Index	1.000	
Community Similarity Indices		
CPOM	0.000	0/60
Total Number Collected		107

# WE3

Tabular summary generated by Transect v2.15 at 2:24:30 pm on Fri 8-Dec-00

Project: Indiana T by 2000 Watershed Soil Loss Transects Transects: 4 State: Indiana Year: 2000 Counties: 4

# Number of Watershed 05140202 020 acres with indicated Slope

	Slo	pe percent			1	
Present crop	0-2%	3-4%	5-7%	8-10%	>10%	Total
Corn	26266	8519	5679	5679	355	46498
Soybeans	7099	4259	3195	355	0	14908
Small grains	3904	3904	1420	1065	0	10294
Forage	0	0	0	0	0	0
Idle	0	0	0	0	0	0
Total	37270	16683	10294	7099	355	71700

# Number of Watershed 05140202 030 acres with indicated Slope

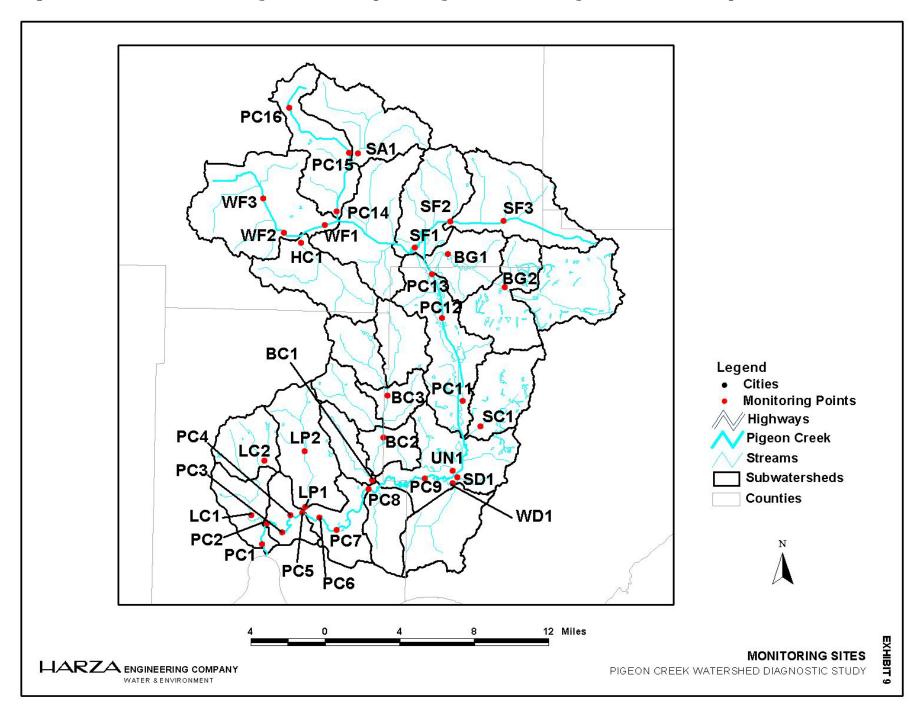
Present crop	0-2%	3-4%	5-7%	8-10%	>10%	Total
Corn	4240	2475	975	710	0	8399
Soybeans	2120	2125	1150	265	0	5660
Small grains	530	530	530	0	0	1590
Forage	0	265	265	0	0	530
Idle	0	265	0	0	0	265
Total	6890	5660	2920	975	0	16444

# Number of Watershed 05140202 040 acres with indicated Slope

Present crop	0-2%	3-4%	5-7%	8-10%	>10%	Total
Corn	8339	2828	324	324	0	11816
Soybeans	4624	2033	1887	649	0	9193
Small grains	854	324	649	324	0	2152
Forage	589	0	0	0	324	914
Idle	854	0	0	0	0	854
Total	15261	5186	2861	1298	324	24929

Site	Water body	Silt Cover (points)
PC1	Pigeon Creek	Heavy (-2)
PC2	Pigeon Creek	Moderate (-1)
PC3	Pigeon Creek	Moderate (-1)
PC4	Pigeon Creek	Normal (0)
PC5	Pigeon Creek	Moderate (-1)
PC6	Pigeon Creek	Heavy (-2)
PC7	Pigeon Creek	Heavy (-2)
PC8	Pigeon Creek	Moderate (-1)
PC9	Pigeon Creek	Heavy (-2)
PC11	Pigeon Creek	Normal (0)
PC12	Pigeon Creek	Moderate (-1)
PC13	Pigeon Creek	Normal (0)
PC14	Pigeon Creek	Moderate (-1)
PC15	Pigeon Creek	Normal (0)
PC16	Pigeon Creek	Moderate (-1)
LC1	Locust Creek	Moderate (-1)
LC2	Locust Creek	Moderate (-1)
LP1	Little Pigeon Creek	Moderate (-1)
LP2	Little Pigeon Creek	Moderate (-1)
BC1	Bluegrass Creek	Moderate (-1)
BC2	Bluegrass Creek	Heavy (-2)
BC3	Bluegrass Creek	Normal (0)
WD1 SD1	Weinsheimer Ditch Stollberg Ditch	Moderate (-1) Moderate (-1)
UN1	Unnamed Tributary	Moderate (-1)
SC1	Squaw Creek	Moderate (-1)
BG1	Big Creek	Normal (0)
BG2	Big Creek	Normal (0)
SF1	Smith Fork	Moderate (-1)
SF2	Smith Fork	Moderate (-1)
SF3	Smith Fork	Normal (0)
WF1	West Fork	Normal (0)
WF2	West Fork	Normal (0)
WF3	West Fork	Moderate (-1)
HC1	Hurricane Creek	Normal (0)
SA1	Sand Creek	Moderate (-1)

	_			_					SpecificC				
	SampleNu			SampleTy					onductivit		<b>.</b>		Comment
LSite	mber	SampleDate	•	ре	02	pН	mp		у	Turbidity	Chloride	Pct	S
OHP040-0004	DI27066	4/20/1999	16:30			).5	8.2	12.8	1288				
OHP040-0004	DI27305	5/12/1999	6:50			3.1	7.9	21.1	1080				
OHP040-0004	DI27503	6/9/1999	11:20			4.5	7.8	27.6	840				
OHP040-0004	DI27684	7/21/1999	18:30			7.2	8.1	31.4	760				
OHP040-0004	DI27892	8/12/1999	8:30			5.9	7.9	24.9	2080				
OHP040-0004	DI28095	9/8/1999	17:30		(	5.6	8	26.1	2050				
OHP040-0004	DI28307	10/13/1999	17:45	1		6	7.6	18.5		28.2			
OHP040-0004	DI28507	11/9/1999	14:30	1		7	8.3	16.3	2350				
OHP040-0004	DI28697	12/9/1999	15:00		10	).2	8.3	9	2470				
OHP040-0004	DI28883	1/12/2000	17:30			).7	7.9	7.6	1254				
OHP040-0004	DI29110	2/22/2000	9:30	1	9	9.7	8.1	7.1	392				
OHP040-0004	DI29282	3/15/2000	16:40	1	10	).4	8.1	13.3	1025				
OHP040-0004	DI29423	4/13/2000	12:20	1		7.7	7.5	14.3	950				
OHP040-0004	DI29657	5/4/2000	10:00	1	:	5.9	7.7	18.9	1490	) 88.2			
OHP040-0004	DI29854	6/8/2000	7:30	1	(	5.2	7.7	19.1	1600	) 30.1			
OHP040-0004	DI30050	7/10/2000	18:30	1	7.	88	7.92	29.58	1086	6 41.4			
OHP040-0004	DI30237	8/7/2000	17:30	1		4.3	7.6	26	571	1 112			
OHP040-0004	DI30416	9/6/2000	8:30	1	(	6.7	7.5	21.2	1016	6 23.7			
OHP040-0005	AA00364	6/26/2000	12:45	1	-	7.8	7.3	26.2	778	3 40.7			
OHP040-0005	AA01393	8/7/2000	15:55	1	4.	35	7.18	25.74	683	3 84	36.6	55.2	2
OHP040-0006	AA00365	6/26/2000	13:00	1		6	7.5	24.7	712	2 40.6			
OHP040-0006	AA01394	8/7/2000	16:35	1	4	18	7.22	25.32	673	8 82.3	25.9	9 53	3 THE VALUE FOR CHLOROPHYLL IS (-1.8)
OHP040-0007	AA00366	6/26/2000	13:30	1	6	48	7.58	24.9	644	40.7			
OHP040-0007	AA01398	8/7/2000	17:00	1	4.	07	7.18	25.24	655	5 86.4	24.6	5 53.3	VALUE FOR CHLOROPHYLL IS (-1.5)
OHP040-0008	AA00367	6/26/2000	13:55	1	5.	35	7.59	24.72	574	40.6			
OHP040-0008	AA01399	8/8/2000	10:40	1	4.	53	7.04	23.76	23	1 228	12.16	5 53.8	3
OHP040-0010	AA00369	6/26/2000	14:25	1		23	7.67	24.76	548	3 40.7			
OHP040-0010	AA01401	8/8/2000	10:10	1	4	4.8	7.13	23.68	227	7 287.4	13.5	5 56.8	3
OHP040-0012	AA00371	6/26/2000	15:35	1	6	54	7.4	26.47	51	1 41.5			
OHP040-0012	AA01403	8/8/2000	9:10	1	4	1.4	7.11	23.87	314	4 258	15.58	3 52.1	

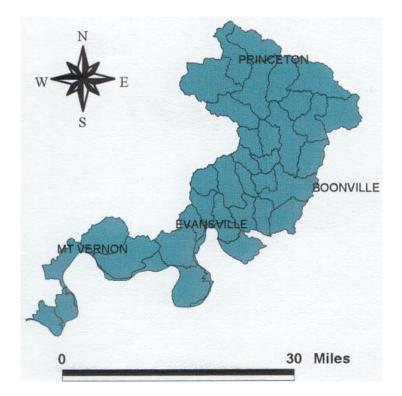


Sample site locations: Diagnostic Study of Pigeon Creek, August 1999 and May 2000, Harza, Inc.

# Watershed Management Plan

For

# **Highland-Pigeon Watershed**



Appendix B: Data from Pigeon-Highland Watershed Steering Committee for Pigeon Creek basin and Carpentier Creek. Advanced Chemical Data

Advanced	d Chemical Data										-								
											E-			_					
								Water			coli(coloni	_		Temp			Nitrate		
								Quality		DO(%Sat	es/100mg	E	BOD	Change		Phosphat	· •	Turbidity(	
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Score	DO(ppm)	uration)	/L) pH	1 5	5(mg/L)	(c)	Temp (c)	e(mg/L)	1 (	NTU)	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	3:00 PM	6/28/2000	Clear/Sunny	Clear/Sunny	63.56	10	105	1300	10.1				0	0	30	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	1/29/2002	Overcast	Clear/Sunny	71.08	11	100	2500	7.9	2			0.5	0.6	10	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:30 PM	11/17/2001	Clear/Sunny	Clear/Sunny	74.22	10	92	200	7.9	4			0.05	0.1	32	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:00 AM	4/12/2002	Overcast	Clear/Sunny	72.57	10	100	363	8.2	2			0.5	0.1	10	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:30 AM	6/11/2002	Overcast	Clear/Sunny	71.34	7	85	561	7.2	1			0.6	0.6 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:15 AM	7/31/2002	Clear/Sunny	Stormy	84.76	7	82	0	7.7	1			0.6	0.35 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	2:00 PM	8/28/2002	Clear/Sunny	Clear/Sunny	82.84	6	70	0	8.1	1			0.4	0.1 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	9/11/2002	Clear/Sunny	Clear/Sunny	62.02	5	57	222	7.7	3			0.75	0 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:00 AM	10/15/2002	Overcast	Clear/Sunny	75.12	9	82	134	7.6	2			0.4	0.2	18	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:30 AM	11/14/2002	Overcast	Clear/Sunny	74.45	9	78	67	7.5	2			0.5	0.35 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:01 PM	12/12/2002	Overcast	Showers	72.11	11	85	266.4	7.4	2			0.6	0.1 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:01 PM	2/13/2003	Clear/Sunny	Clear/Sunny	79.06	14	105	100	7.4	1			0.35	0.45 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:30 AM	3/18/2003	Showers	Overcast	74.36	12	115	130	8	1			0.7	0.1 L	ess Than 15	
22	1 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:30 AM	4/15/2003	Clear/Sunny	Clear/Sunny	71.52	10	97	200	8.1	1			0.95	0.2 L	ess Than 15	

#### Stream Flow Data

Stream Flow	V Dala									Ave			
								Ave	Ave	Velocity(ft		Discharge	
Site ID V	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Depth(ft)	Width(ft)	/sec)	n value	(cfs)	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:30 PM	11/17/2001	Clear/Sunny	Clear/Sunny	1.03	18	0	0.9	0	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	1/29/2002	Overcast	Clear/Sunny	0.83	18.5	0.42	0.9	5.8	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:00 AM	4/12/2002	Overcast	Clear/Sunny	0.61	10.5	2	0.8	10.25	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:30 AM	6/11/2002	Overcast	Clear/Sunny	0.38	7	0.76	0.8	1.62	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:15 AM	7/31/2002	Clear/Sunny	Stormy	0.44	6	0.92	0.9	2.19	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	2:00 PM	8/28/2002	Clear/Sunny	Clear/Sunny	0.53	15	0.8	0.9	5.72	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	9/11/2002	Clear/Sunny	Clear/Sunny	0.25	6	0.6	0.9	0.81	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:00 AM	10/15/2002	Overcast	Clear/Sunny	0.67	11.5	0.14	0.9	0.97	
221 H	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:30 AM	11/14/2002	Overcast	Clear/Sunny	0.55	10.5	0.2	0.9	1.04	

#### Biological Data

							Pollution Tolleranc	Stonefly	Mayfly	Caddis	Dobso	nfly Riffle	Water	handed	Damsel Fly	Dragon	fly		Crane	Fly Clams/	'Mu Midge	Black Fl	v		Handed	d Aquat	ic Blood	d R
e ID WaterShed Name	River Name	Description	Time	Date We	ather Pas	st Weather	e Score	Larvae	Larvae	Fly Larv	e Larvae	Beetle	Penny	Snail	Nymph	Nymph	Sowb	ug Scud	Larvae	ssels	Larvae	Larvae	Planaria	Leech	Snail	Worm	s Midge	e M
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	3:00 PM	6/28/2000 Cle	ar/Sunny Clea	ar/Sunny	5											х								х	х	
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	1/29/2002 Ove	ercast Clea	ar/Sunny	11										1	8	15							20		2
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:30 PM	11/17/2001 Cle	ar/Sunny Clea	ar/Sunny	6											3								24	2	30
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:00 AM	4/12/2002 Ove	ercast Clea	ar/Sunny	22			1		1	1			3					4					12	2	
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:30 AM	6/11/2002 Ove	ercast Clea	ar/Sunny	25				9		1			2		4	25		6				1	2	1	1
221 Highland-Pigeon 05140202	Carpentier Creel	south side of Hogue Rd. bridge	9:15 AM	7/31/2002 Cle	ar/Sunny Stor	rmy	21				10		1					1	12		5				1	2	12	
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	2:00 PM	8/28/2002 Cle	ar/Sunny Clea	ar/Sunny	24				4		2			5		9	3		3				1	9	3	
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	9/11/2002 Cle	ar/Sunny Clea	ar/Sunny	18			4	3					6			13		27						3	
221 Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:00 AM	10/15/2002 Ove	ercast Clea	ar/Sunny	13			2						4		5	10									
221 Highland-Pigeon 05140202	Carpentier Creel	south side of Hogue Rd. bridge	11:30 AM	11/14/2002 Ove	ercast Clea	ar/Sunny	15										4	12	2		1					8	1	5

#### Standard Chemical Data

Habitat Da	ata													
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	11	111	IV	V	VI	CQ	HEI
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	3:00 PM	6/28/2000	Clear/Sunny	Clear/Sunny	6	16	12	10.5	5	4	53.5
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	1/29/2002	Overcast	Clear/Sunny	6	12	12	9	6	8	53
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:30 PM	11/17/2001	Clear/Sunny	Clear/Sunny	3	8	9	12	5	0	37
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:00 AM	4/12/2002	Overcast	Clear/Sunny	8	14	12	11	9	10	64
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:30 AM	6/11/2002	Overcast	Clear/Sunny	3	14	15	10	9	8	59
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:15 AM	7/31/2002	Clear/Sunny	Stormy	3	14	12	11	9	9	58
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	2:00 PM	8/28/2002	Clear/Sunny	Clear/Sunny	8	16	12	13	9	8	66
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	10:00 AM	9/11/2002	Clear/Sunny	Clear/Sunny	3	16	12	13	9	8	61
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	9:00 AM	10/15/2002	Overcast	Clear/Sunny	3	16	12	12	6	8	57
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	11:30 AM	11/14/2002	Overcast	Clear/Sunny	3	14	12	12	6	0	47
221	Highland-Pigeon 05140202	Carpentier Creek	south side of Hogue Rd. bridge	12:01 PM	2/13/2003	Clear/Sunny	Clear/Sunny	3	8	9	2	6	0	28

Biological Data

5						Past	Pollution Tolleranc Stonefly	Mayfly	Caddis	Dobsonfly	Riffle	Water	Right handed	Damsel Flv	Dragonfl	hv.	Crane Fl	lv Clams/N	Au Midae	Black Flv	v		Left Handed	Aquatic	Blood	Rat- Tailed
Site ID	WaterShed Name	River Name Description	Time	Date	Weather		e Score Larvae									Sowbug Scud	Larvae	, · · ·			Planaria			Worms		
0110 12		Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	1:00 PI			Clear/Sunny		20.100		Lairao	20010	6	oriali			combag coad	Laivao	00010	Larrao	Laivao	i lanana	1	I		inago	2
	66 Highland-Pigeon 05140202	Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	1:00 PI	A 4/18/200*	Clear/Sunny	Clear/Sunny	15		х		х		х		х											
	75 Highland-Pigeon 05140202	Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	10:30 AM	A 8/22/2001	Clear/Sunny	Clear/Sunny	11		1	2									3			1	í.	1	1:	2
	66 Highland-Pigeon 05140202	Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	10:00 AM	A 8/21/2001	Clear/Sunny	Clear/Sunny	11		2			4							1							
	75 Highland-Pigeon 05140202	Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	9:30 AI	A 11/17/200	Clear/Sunny	Clear/Sunny	18		1	2						10			10			3	3	12	:	2

Biological Data

	Past	Pollution Tolleranc St	onefly Mavfly	Caddis Dobsonfly Riffle		Right Dar handed Flv	msel Dra	agonfly	Crane Fly Clams/Mu Midge	Black Flv	Left Handed	Aquatic Bloo	Rat- d Tailed
Site ID WaterShed Name River Name Description	Time Date Weather Weat					,	moh Nvn	5 7	Larvae ssels Larvae	Larvae Planaria Leech	Snail	Worms Mide	
			aivae Laivae	Fly Laive Laivae Beelle	Feility	Shali Nyi	прп тур	inpri Sowbug Scuu	Laivae sseis Laivae	Larvae Fianaria Leech	Jian	wonns widg	
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	1:15 PM 1/22/2002 Clear/Sunny Over						2	5			1		5
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	2:35 PM 2/25/2002 Clear/Sunny Clear	/Sunny 7			1			1					
75 Highland-Pigeon 05140202 Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	8:00 AM 4/12/2002 Clear/Sunny Clear	/Sunny 6							6		1	20	
75 Highland-Pigeon 05140202 Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	11:00 AM 7/31/2002 Clear/Sunny Storm	ny 10		12					1		1	1 12	4
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	11:00 AM 7/25/2002 Clear/Sunny Clear	/Sunny 4						2					6
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	12:01 PM 8/27/2002 Clear/Sunny Clear	/Sunny 8					2	3			1		
75 Highland-Pigeon 05140202 Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	3:00 PM 8/28/2002 Overcast Clear	/Sunny 11		2				3			2	10	2
75 Highland-Pigeon 05140202 Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	12:30 PM 9/11/2002 Clear/Sunny Clear	/Sunny 19		35	6		2	1	30		1	1 2	
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	1:30 PM 9/27/2002 Clear/Sunny Clear	/Sunny 8					2	1				2	1
75 Highland-Pigeon 05140202 Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	11:30 AM 10/15/2002 Clear/Sunny Clear	/Sunny 19		4			1	5	15		2 1	1	7
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM 10/18/2002 Clear/Sunny Show	vers 13		1			3	2			1	1	
75 Highland-Pigeon 05140202 Pigeon Creek Pigeon Creek @ Heidelbach Ave. Boat Launch	9:50 AM 11/14/2002 Clear/Sunny Clear	/Sunny 11		2					3		1	3	15
66 Highland-Pigeon 05140202 Pigeon Creek Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM 11/8/2002 Clear/Sunny Show	vers 10					1	1 3				1	

Advanced Chemical Data

											E-						
								Water			coli(coloni		Temp		Total		
							Past	Quality		DO(%Sat	es/100mg	BOD	Change		Phosphat	Nitrate	Furbidity(
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Weather	Score	DO(ppm)	uration)	/L) pH	5(mg/L)	(c)	Temp (c)	e(mg/L)	NO3(mg/l)	NTU)
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:00 PM	5/18/2001	Clear/Sunny	Clear/Sunny	64.93	10		300	8.2		0 22	2 0.8	0	30
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:00 PM	4/18/2001	Clear/Sunny	Clear/Sunny	60.22	7	75	5 300	8.3			3.5	0.1	30
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:30 AM	6/12/2001	Clear/Sunny	Clear/Sunny	79.18	9	110	) 0	7.6			2	0.1	40
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	10:30 AM	8/22/2001	Clear/Sunny	Clear/Sunny	66.1	8	95	5 300	8.1	4		1	0.1	40
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	10:00 AM	8/21/2001	Clear/Sunny	Clear/Sunny	65.55	7	78	3 200	8	6		0.5	0.3	32
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:30 AM	11/17/2001	Clear/Sunny	Clear/Sunny	78.64	8	72	2 0	8	1		1	2	20
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:00 PM	11/27/2001	Overcast	Stormy	51.89	7	65	5 5400	7.6	4		3.5	0.6	70

#### Advanced Chemical Data

Advanced Chemical Data										_						
										E		-		<b>-</b>		
						<b>.</b> .	Water			coli(coloni	_	Ter	1	Total		,
				_		Past	Quality		DO(%Sat				ange	•		urbidity(
Site ID WaterShed Name	River Name	1	Time	Date	Weather	Weather			uration)	/L) pł		5(mg/L) (c)	Temp (c)	) e(mg/L)	NO3(mg/l) N	ITU)
5 5	0	Pigeon Creek @ Heidelbach Ave. Boat Launch	1:00 PM			Clear/Sunny		10	87	800	8.1	4		0.6	2.5	40
66 Highland-Pigeon 0514020	2 Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:15 PM	1/22/2002	Clear/Sunny	Overcast	70.87	11	85	100	8.1	4		0.6	0.9	20
66 Highland-Pigeon 0514020	2 Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:35 PM	2/25/2002	Clear/Sunny	Clear/Sunny	74.24	11	97	133.2	8.1	2		0.5	1	15
66 Highland-Pigeon 0514020	2 Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:00 PM	3/14/2002	Clear/Sunny	Clear/Sunny	63.62	11	110	700	7.8	4		0.7	2	70
75 Highland-Pigeon 0514020	2 Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	8:00	4/12/2002	Clear/Sunny	Clear/Sunny	66.78	8	88	300	7.9	4		0.8	0.2	40
66 Highland-Pigeon 0514020	2 Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	3:00 PM	6/4/2002	Clear/Sunny	Clear/Sunny	67.88	6	74	825	8.1	2		0.4	0.5	22
75 Highland-Pigeon 0514020	2 Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	1:00 PM	6/11/2002	Clear/Sunny	Clear/Sunny	65.79	6	75	500	7.7	2		0.8	1.5	21
75 Highland-Pigeon 0514020	2 Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:00 AM	7/31/2002	Clear/Sunny	Stormy	69.93	10	127	66	8.2	2		0.8	0.2	36
66 Highland-Pigeon 0514020	2 Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	11:00 AM	7/25/2002	Clear/Sunny	Clear/Sunny	64.38	6	70	231	8.1	1		0.9	0.2	32
		Approx. 1 mile west of Chandler on Heim Rd.	12:01 PM	8/27/2002	Clear/Sunny	Clear/Sunny	68.75	6	72	100	8.2	2		0.8	0.8	18
75 Highland-Pigeon 0514020	2 Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	3:00 PM	8/28/2002	Overcast	Clear/Sunny	70.06	8	99	132	8.4	1		1	0.2	40
75 Highland-Pigeon 0514020	2 Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	12:30 PM	9/11/2002	Clear/Sunnv	Clear/Sunny	66.44	7	85	300	8.4	2		1	0.1	35
<b>o o</b>	•	Approx. 1 mile west of Chandler on Heim Rd.	1:30 PM	9/27/2002	Clear/Sunnv	Clear/Sunny	55.67	5	52	400	8.1	2		1	0.35	40
<b>o o</b>	•	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:30 AM	10/15/2002	Clear/Sunnv	Clear/Sunny	66.26	7	70	167	8	1		1	0.2	22
0 0	0	Approx. 1 mile west of Chandler on Heim Rd.			Clear/Sunny		72.62		83	34	8.2	2		1	0.2	18
0 0	0	Pigeon Creek @ Heidelbach Ave. Boat Launch				Clear/Sunny			70	133	7.7	2		1	1	49
<b>o o</b>	•	Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM		Clear/Sunny	,	59.16		45	267	7.6	1		0.9	1	20
		Approx. 1 mile west of Chandler on Heim Rd.	0300 pm	12/17/2002		Showers	67.26		98	199.8	7.9	3		0.8	4.5	19
		Pigeon Creek @ Heidelbach Ave. Boat Launch		12/12/2002		Showers	70.55	12	87	333	7.6	1		0.0	0.8	20
re rigiliaria igcorroo 14020		i igeen ereek @ neidelbdoin/ive. Doat Eddilon	2.001 10	12/12/2002	010100001	0101010	10.00	12	07	000	7.0				0.0	20

Adva	nced Chemical Data																
Site I	D WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Water Quality Score DO(p	opm)	DO(%Satura E-c	coli(colo pH	В	OD 5(mg Temp Cha Tem	p (c) Total Ph	os Nitra	ate NO Tur	oidity(NTU)
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	2:00 PM	2/13/2003	Clear/Sunny	Clear/Sunny	72.94	15	110	199.8	8.1	2	0	.4	2	20
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:15 PM	3/4/2003	Overcast	Clear/Sunny	66.36	11	86	334	7.1	2	0.5	5	6	34
			Approx. 1 mile west of Chandler on Heim Rd.	10:30 AM	3/28/2003	Overcast	Clear/Sunny	63.94	8	80	134	8.1	2		1	8	20
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	12:45 PM	4/16/2003	Overcast	Clear/Sunny	67.18	8	82	100	8.3	2		2	2	18
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:00 AM	4/15/2003	Clear/Sunny	Clear/Sunny	69.52	10	105	100	8.6	3		1	0.55	20

ł	Habitat	Data													
ξ	Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	П	III	IV	V	VI	CQ	QHEI
		66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:00 PM	5/18/2001	Clear/Sunny	Clear/Sunny	0	10	12	15	7	8	52
		66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:00 PM	4/18/2001	Clear/Sunny	Clear/Sunny	0	12	12	17	8	12	61
		75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:30 AM	6/12/2001	Clear/Sunny	Clear/Sunny	0	8	12	15.5	7	0	42.5
		75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	10:30 AM	8/22/2001	Clear/Sunny	Clear/Sunny	3	12	12	16.5	9	10	62.5
		66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	10:00 AM	8/21/2001	Clear/Sunny	Clear/Sunny	7	10	12	17	9	13	68
		75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:30 AM	11/17/2001	Clear/Sunny	Clear/Sunny	3	12	12	11	8	10	56

Habitat Data													
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	11	III	IV	V	VI	CQH	ΗEI
66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:15 PM	1/22/2002	Clear/Sunny	Overcast	7	6	12	17	10	10	62
66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:35 PM	2/25/2002	Clear/Sunny	Clear/Sunny	7	6	9	15	10	15	62
75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	8:00 AM	4/12/2002	Clear/Sunny	Clear/Sunny	5	6	9	9	6	0	35
75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:00 AM	7/31/2002	Clear/Sunny	Stormy	3	8	9	11	8	10	49
66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	11:15 AM	7/25/2002	Clear/Sunny	Clear/Sunny	5	4	6	15	8	13	51
		Approx. 1 mile west of Chandler on Heim Rd.	12:01 PM	8/27/2002	Clear/Sunny	Clear/Sunny	7	6	6	14	8	10	51
75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	3:00 PM	8/28/2002	Overcast	Clear/Sunny	3	10	9	11	8	8	49
75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	12:30 PM	9/11/2002	Clear/Sunny	Clear/Sunny	5	10	6	11	9	10	51
66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:30 PM	9/27/2002	Clear/Sunny	Clear/Sunny	5	6	6	17	8	6	48
75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:30 AM	10/15/2002	Clear/Sunny	Clear/Sunny	5	12	6	11	9	10	53
66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM	10/18/2002	Clear/Sunny	Showers	7	8	9	17	8	10	59
75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:50 AM	11/14/2002	Clear/Sunny	Clear/Sunny	5	8	6	11	8	10	48
66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM	11/8/2002	Clear/Sunny	Showers	5	6	6	17	8	0	42

#### Stream Flow Data

Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Ave Depth Ave	Width Ave	Veloci n valu	ie [	Discharge(cfs)
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	10:30 AM	8/22/2001	Clear/Sunny	Clear/Sunny	0.6	62.5	3.33	0.8	99.9
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	10:00 AM	8/21/2001	Clear/Sunny	Clear/Sunny	1.71	22.5	2.25	0.8	69.26
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:30 AM	11/17/2001	Clear/Sunny	Clear/Sunny	0.81	63	2.5	0.8	102.06

Stream Flow Data

0	- lott Bata												
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Ave Depth Ave	Width(Ave	Veloci n valu	e [	Discharge(cfs)	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:15 PM	1/22/2002	Clear/Sunny	Overcast	1.5	32.5	1.43	0.9	62.74	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:35 PM	2/25/2002	Clear/Sunny	Clear/Sunny	2.17	50	2	0.9	195.3	
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:00 AM	7/31/2002	Clear/Sunny	Stormy	0.64	58.5	1.67	0.8	50.02	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	11:00 AM	7/25/2002	Clear/Sunny	Clear/Sunny	0.67	42.5	1.11	0.9	28.45	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	12:01 PM	8/27/2002	Clear/Sunny	Clear/Sunny	0.86	27.5	1	0.9	21.28	
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	03:00pm	8/28/2002	Overcast	Clear/Sunny	0.64	42.5	1.43	0.9	35.01	
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:00 AM	9/11/2002	Clear/Sunny	Clear/Sunny	0.47	67	1.43	0.8	36.02	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	1:30 PM	9/27/2002	Clear/Sunny	Clear/Sunny	0.95	40	0.83	0.9	28.39	
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	11:30 AM	10/15/2002	Clear/Sunny	Clear/Sunny	0.47	73.5	1.35	0.8	37.31	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM	10/18/2002	Clear/Sunny	Showers	0.93	42.5	1.25	0.9	44.47	
	75 Highland-Pigeon 05140202	Pigeon Creek	Pigeon Creek @ Heidelbach Ave. Boat Launch	9:50 AM	11/14/2002	Clear/Sunny	Clear/Sunny	0.64	71	2	0.8	72.7	
	66 Highland-Pigeon 05140202	Pigeon Creek	Approx. 1 mile west of Chandler on Heim Rd.	2:00 PM	11/8/2002	Clear/Sunny	Showers	0.9	44.5	1.11	0.9	40.01	

Biological Data		
-	Pollution	Right Damsel Left
	Tollerance Stonefly Mayfly Caddis Fly Dobsonfly Riffle	Water handed Fly Dragonfly Crane Fly Clams/Mu Midge Black Fly Handed Aquatic Blood Rat-Tailed
Site ID WaterShed Name River Name Description		Penny Snail Nymph Nymph Sowbug Scud Larvae ssels Larvae Larvae Planaria Leech Snail Worms Midge Maggot
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	E 2:30 PM 4/6/2001 Clear/Sunny Clear/Sunny 19 2 1	1 1 2 1 1 1 1
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	E 10:00 AM 8/15/2001 Clear/Sunny Clear/Sunny 15 4 6	6 5 1 7
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	E 9:00 AM 11/30/2001 Clear/Sunny Showers 15 2 8	8 2 10 13

Biological Data

		Pollution		Right Damsel		Left
		Tollerance Stonefly Mayfly	Caddis Fly Dobsonfly Riffle Water	handed Fly Dragonfly	Crane Fly Clams/Mu Midge Black Fly	Handed Aquatic Blood Rat-Tailed
Site ID WaterShed Name River Name Description	Time Date Weather Past Weather	Score Larvae Larvae	Larve Larvae Beetle Penny	Snail Nymph Nymph Sowbug Sci	ud Larvae ssels Larvae Larvae Planaria Leech	Snail Worms Midge Maggot
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	1:45 PM 1/25/2002 Clear/Sunny Showers	12	2	8	3	4 6
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	10:00 AM 2/18/2002 Clear/Sunny Clear/Sunny	9		2 1	3	
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	9:00 AM 4/11/2002 Clear/Sunny Clear/Sunny	8		4	2	2 1
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	11:00 AM 5/20/2002 Clear/Sunny Overcast	6		3 3		
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	11:00 AM 6/17/2002 Clear/Sunny Clear/Sunny	4		1		1
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	11:00 AM 7/30/2002 Clear/Sunny Clear/Sunny	4		3		4
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	11:00 AM 8/26/2002 Overcast Clear/Sunny	4		3		2
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	11:30 AM 9/24/2002 Clear/Sunny Clear/Sunny	17	1 1	14 8 3		
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	9:00 AM 10/16/2002 Clear/Sunny Clear/Sunny	6		12 4		
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	1:30 PM 11/13/2002 Clear/Sunny Rain	7		1 3		2
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork near Gibson Co. landfill, bridge on CR 175E	2:00 PM 12/9/2002 Clear/Sunny Clear/Sunny	8	1	2		8

									E-							
						Water			coli(coloni	i		Temp		Total		
						Quality		DO(%Sat	es/100mg		BOD	Change		Phosphat	Nitrate	Turbidity(
Site ID WaterShed Name River Name	Description	Time	Date	Weather	Past Weather	Score	DO(ppm)	uration)	/L)	pН	5(mg/L)	(c)	Temp (c)	e(mg/L)	NO3(mg/l)	NTU)
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	2:30 PM	4/6/2001	1 Clear/Sunny	Clear/Sunny	61.03	8	80	200	)	8.5			1.5	2	31
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	10:00 AM	8/15/2001	1 Clear/Sunny	Clear/Sunny	71.71	9	97	700	)	7.9	7		0.25	0.1	12
165 Highland-Pigeon 05140202 Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	11/30/2001	1 Clear/Sunny	Showers	73.21	8	85	400	)	8.1	2		0.2	0.5	25

Advance	ed Chemical Data														
										E-					
							Water			coli(coloni		Temp	Total	Nitrate	
							Quality		DO(%Sat	es/100mg	BO	D Change	Phospha	t NO3(mg/l	Turbidity(
Site ID	WaterShed Name	River Name	Description	Time	Date Weather	Past Weather	Score	DO(ppm)	uration)	/L) pH	5(n	ng/L) (c)	Temp (c) e(mg/L)	)	NTU)
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	1:45 PM	1/25/2002 Clear/Sunny	Showers	52.45	10		1000	7.7	4		1 2.5	70
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	10:00 AM	2/18/2002 Clear/Sunny	Clear/Sunny	59.48	6	52	1000	7.7	2	0.5	5 0.25	15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	4/11/2002 Clear/Sunny	Clear/Sunny	72.6	10	92	528	7.8	4	0	.3 0.4	15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	5/20/2002 Clear/Sunny	Overcast	75.06	9	90	99	7.7	1	0	7 0.8	Less Than 15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	6/17/2002 Clear/Sunny	Clear/Sunny	76.42	10	107	330	7.8	1	0	4 0.35	Less Than 15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	7/30/2002 Clear/Sunny	Clear/Sunny	72.71	9	105	198	8	1	0.8	5 0.6	Less Than 15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	8/26/2002 Overcast	Clear/Sunny	77.71	9	102	132	8.1	1	0	4 0.25	Less Than 15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:30 AM	9/24/2002 Clear/Sunny	Clear/Sunny	69.63	8	80	267	7.6	1		1 0.2	Less Than 15
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	10/16/2002 Clear/Sunny	Clear/Sunny	72.6	9	78	234	8	2	0.	.4 0.1	Less Than 15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	1:30 PM	11/13/2002 Clear/Sunny	Rain	70.82	10	88	267	7.8	1	0.	9 1.5	Less Than 15
16	55 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	2:00 PM	12/9/2002 Clear/Sunny	Clear/Sunny	77.2	12	92	233	7.8	2	0.	2 0.2	Less Than 15

Advanced Chemical Data															
										E-					
							Water			coli(coloni		Temp	Total		
						Past	Quality	DO	D(%Sat	es/100mg	BOD	Change	Phos	ohat Nitra	ate Turbidity(
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Weather	Score	DO(ppm) ura	ation)	/L) pH	5(mg/L)	(c)	Temp (c) e(mg	L) NO3	3(mg/l) NTU)
165 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	3:00 P	M 3/17/200	3 Overcast	Clear/Sunny	63.28	11	127	300	7.9	2		2	4.5 Less Than 15
165 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 A	M 4/18/200	3 Overcast	Rain	74.39	8	77	100	7.9	2		0.4	1.5 Less Than 15

Н	labitat	Data													
S	ite ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	II	III	IV	V	VI	CC	2HEI
	1	65 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	2:30 PM	4/6/2001	Clear/Sunny	Clear/Sunny	7	8	12	4	8	10	49
	1	65 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	10:00 AM	8/15/2001	Clear/Sunny	Clear/Sunny	7	12	9	13.5	8	13	62.5
	1	65 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	11/30/2001	Clear/Sunny	Showers	7	12	9	13.5	8	13	62.5

Habitat D	lata													
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	II	111	IV	V	VI	CQ	HEI
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	1:45 PM	1/25/2002	Clear/Sunny	Showers	3	4	12	16.5	8	10	53.5
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	10:00 AM	2/18/2002	Clear/Sunny	Clear/Sunny	3	8	9	10	8	8	46
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	4/11/2002	Clear/Sunny	Clear/Sunny	6	6	6	9	9	10	46
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	5/20/2002	Clear/Sunny	Overcast	3	4	9	10	9	10	45
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	6/17/2002	Clear/Sunny	Clear/Sunny	3	4	6	10	9	8	40
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	7/30/2002	Clear/Sunny	Clear/Sunny	3	4	0	5	9	4	25
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	8/26/2002	Overcast	Clear/Sunny	3	4	9	10	8	8	42
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:30 AM	9/24/2002	Clear/Sunny	Clear/Sunny	3	4	9	10	8	4	38
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	10/16/2002	Clear/Sunny	Clear/Sunny	3	4	3	12	8	10	40
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	1:30 PM	11/13/2002	Clear/Sunny	Rain	3	2	0	5	8	4	22
16	5 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	2:00 PM	12/9/2002	Clear/Sunny	Clear/Sunny	3	4	3	5	4	4	23

Stream Flow Data

Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Ave Depth Ave	Width(Ave	Veloci n valu	e D	ischarge(cfs)
	165 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	10:00 AM	8/15/2001	Clear/Sunny	Clear/Sunny	1.05	13.67	0.92	0.9	11.88
	165 Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	11/30/2001	Clear/Sunny	Showers	1.33	14.33	1.33	0.9	22.81

Stream Flo	ow Data											
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Ave Depth(Ave	e Width(Ave	e Veloci n valu	Je 🛛	Discharge(cfs)
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	1:45 PM	1/25/2002	Clear/Sunny	Showers	1	21.5	0.67	0.9	12.96
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	10:00 AM	2/18/2002	Clear/Sunny	Clear/Sunny	0.38	8	1.58	0.9	4.32
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	4/11/2002	Clear/Sunny	Clear/Sunny	0.56	18	1.61	0.9	14.61
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	5/20/2002	Clear/Sunny	Overcast	0.57	7	1.5	0.9	5.39
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	6/17/2002	Clear/Sunny	Clear/Sunny	0.4	8	1.9	0.9	5.47
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	7/30/2002	Clear/Sunny	Clear/Sunny	0.31	7	0.89	0.9	1.74
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:00 AM	8/26/2002	Overcast	Clear/Sunny	0.31	8.5	1.32	0.9	3.13
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	11:30 AM	9/24/2002	Clear/Sunny	Clear/Sunny	0.36	7.5	2.4	0.9	5.83
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	9:00 AM	10/16/2002	Clear/Sunny	Clear/Sunny	0.33	7.75	1.25	0.9	2.88
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	1:30 PM	11/13/2002	Clear/Sunny	Rain	0.52	6.5	1.25	0.9	3.8
165	Highland-Pigeon 05140202	Pigeon Creek-Clear Fork	near Gibson Co. landfill, bridge on CR 175E	2:00 PM	12/9/2002	Clear/Sunny	Clear/Sunny	0.4	6.5	1.11	0.9	2.6

Biolog	ical Data																												
								Pollution							Right	Damsel										Left			
		River					Past	Tolleranc	e Stonefly	Mayfly	Caddis	Dobse	onfly Riffle	Water	handed	Fly	Dragonf	ly		Crane	Fly Clams/I	Mu Midge	Black Fly			Handed	Aquatic	Blood	Rat-Tailed
Site ID	WaterShed Name	Name	Description	Time	Date	Weather	Weather	Score	Larvae	Larvae	Fly Lar	ve Larva	e Beetle	Penny	Snail	Nymph	Nymph	Sow	bug Scud	Larvae	e ssels	Larvae	Larvae	Planaria	Leech	Snail	Worms	Midge	Maggot
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	12:45 PM	1/8/200	2 Clear/Sunny	Clear/Sunny		7										30	5						:	2		
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	11:00 AM	2/25/200	2 Clear/Sunny	Clear/Sunny	1	9					9					20							:	2	2	
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	10:00 AM	3/8/200	2 Clear/Sunny	Clear/Sunny	3	1		5	12		2		2	2	1	40	10							1	4	1
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	4/2/200	2 Overcast	Clear/Sunny	2	3		3	10		4			2		20	3						:	2	2	
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	1:15 PM	5/21/200	2 Clear/Sunny	Clear/Sunny	1	6					8			2	1	10							:	2		
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	6/4/200	2 Clear/Sunny	Clear/Sunny	2	D			15		8			1		17		1					(	5	1	10
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:30 AM	7/25/200	2 Clear/Sunny	Clear/Sunny	1	7			15		2					30	5						4	4	1	3
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	8/27/200	2 Clear/Sunny	Clear/Sunny	2	2		3	5		9			4	2	10							:	3		
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	10:00 AM	9/27/200	2 Clear/Sunny	Clear/Sunny	2	4		2	8		10			4	2	6							1 4	4		
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	10/18/200	2 Clear/Sunny	Showers	2	D		1	15				1	5	12	10							:	2		
	278 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	11/8/200	2 Clear/Sunny	Showers	1	1			3					1		7							:	3		

Advanced Chemical Data												
						E-						
			١	Water		coli(coloni		Temp		Total		
			(	Quality	DO(%S	at es/100mg/	BOD	Change		Phosphat	Nitrate	Turbidity(
Site ID WaterShed Name River Name Description	Time	Date Weather	Past Weather S	Score DO	O(ppm) uration)	L) pH	5(mg/L)	(c)	Temp (c)	e(mg/L)	NO3(mg/l)	NTU)
282 Highland-Pigeon 05140202 Smith Fork CR 850E bridge	2:00 PM	8/15/2001 Clear/Sunny	Clear/Sunny	75.03	8 1	10 1000	8.7	1		0.05	0	5
278 Highland-Pigeon 05140202 Smith Fork bridge at Petersb	Irg Rd. 10:30 AM	8/22/2001 Clear/Sunny	Clear/Sunny	71.52	11 1	32 100	8.3	7		0.35	0.25	2
278 Highland-Pigeon 05140202 Smith Fork bridge at Petersb	Irg Rd. 9:00 AM	11/27/2001 Showers	Stormy	55.38	8	72 4500	7.4	6		2	1	40

Advanced Chemical Data								_							
								E-							
					Water			coli(coloi	ni		Temp		Total		
WaterShe					Quality		DO(%Sat	es/100m	g/	BOD	Change		Phosphat	Nitrate T	urbidity(
Site ID d Name River Name Description	Time	Date	Weather	Past Weather	Score	DO(ppm)	uration)	L)	pН	5(mg/L)	(c)	Temp (c)	e(mg/L)	NO3(mg/l) N	TU)
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 12:45 Pl	A 1/8/2002	Clear/Sunny	Clear/Sunny	73.85	16	112	10	0	7.8	4		0.6	0.3	5
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 11:00 Al	A 2/25/2002	Clear/Sunny	Clear/Sunny	82.82	14	120	33	.3 8	3.1	1		0.15	0.2	5
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 10:00 Al	A 3/8/2002	Clear/Sunny	Clear/Sunny	84.72	10	97	. 3	3	7.9	0		0.2	0.1	10
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 9:00 Al	A 4/2/2002	Overcast	Clear/Sunny	78.31	11	100	16	5	7.7	1		0.3	0.2	18
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 1:15 Pl	A 5/21/2002	Clear/Sunny	Clear/Sunny	68.54	6	65	6	6 8	3.1	1		0.9	0.1 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 9:00 Al	A 6/4/2002	Clear/Sunny	Clear/Sunny	75.31	9	105	13	2	7.8	1		0.7	0.1 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 9:30 Al	A 7/25/2002	Clear/Sunny	Clear/Sunny	71.42	5	60	9	9	7.9	1		0.2	0.35 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 9:00 Al	A 8/27/2002	Clear/Sunny	Clear/Sunny	88.09	7	77		0	7.9	0		0.3	0.35 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 10:00 Al	A 9/27/2002	Clear/Sunny	Clear/Sunny	83.02	10	100	3	3	8	0		0.3	0.1 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 9:00 Al	A 10/18/2002	Clear/Sunny	Showers	65.48	6	54	43	4	7.9	2		0.1	0 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 9:00 Al	A 11/8/2002	Clear/Sunny	Showers	75.94	5	42		0	7.5	1		0.4	0.2 L	ess Than 15
278 Highland-F Smith Fork bridge at Pet	ersburg Rd. 10:00 Al	A 12/17/2002	Overcast	Showers	67.09	8	64	166	5	7.1	2		0.5	0.35 L	ess Than 15

Advance	d Chemical Data																		
											E-								
								Water			coli(colon	i		Temp		Total	Nitrate		
		River					Past	Quality		DO(%Sat	es/100mg	1	BOD	Change		Phosphat	NO3(mg/l	Turbidity(	(
Site ID	WaterShed Name	Name	Description	Time	Date	Weather	Weather	Score	DO(ppm)	uration)	/L)	pН	5(mg/L)	(c)	Temp (c)	e(mg/L)	)	NTU)	
27	8 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	8:40 AM	3/4/2003	Clear/Sunny	Clear/Sunny	75.35	12	86	67	7	7.4	1		0.65	2	1	7
27	8 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	3/21/2003	Overcast	Rain	63.63	10	92	366	6	7.2	3		4	1.5	3	0
27	8 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	4/4/2003	Overcast	Clear/Sunny	70.64	10	100	200	)	8.1	2		1	0.2	Less Tha	an 15
27	8 Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	3:00 PM	4/16/2003	Overcast	Clear/Sunny	74.67	10	97	67	7	8.1	1		0.9	0.9	Less Tha	an 15

#### Habitat Data

Tiabitat De	ala													
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	II	111	IV	V	VI	CQHE	1
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	12:45 PM	1/8/2002	Clear/Sunny	Clear/Sunny	6	12	12	12	8	4	54
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	11:00 AM	2/25/2002	Clear/Sunny	Clear/Sunny	3	14	12	13	6	8	56
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	10:00 AM	3/6/2002	Clear/Sunny	Clear/Sunny	3	12	12	13	9	10	59
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	4/2/2002	Overcast	Clear/Sunny	10	12	12	13	8	10	65
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	1:15 PM	5/21/2002	Clear/Sunny	Clear/Sunny	8	14	12	13	9	8	64
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	6/4/2002	Clear/Sunny	Clear/Sunny	13	8	12	13	9	10	65
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:30 AM	7/25/2002	Clear/Sunny	Clear/Sunny	5	10	12	13	6	8	54
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	8/27/2002	Clear/Sunny	Clear/Sunny	8	16	12	14	9	8	67
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	10:00 AM	9/27/2002	Clear/Sunny	Clear/Sunny	8	14	12	11	9	4	58
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	10/18/2002	Clear/Sunny	Showers	8	14	12	12	6	8	60
278	B Highland-Pigeon 05140202	Smith Fork	bridge at Petersburg Rd.	9:00 AM	11/8/2002	Clear/Sunny	Showers	10	14	12	11	6	8	61

Stream Flow Data									
Site ID WaterShed Name	River Name Description	Time	Date Weather	Past Weather	Ave Depth Av	e Width(Av	ve Veloci n v	alue	Discharge(cfs)
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 12:45 PM	1/8/2002 Clear/Sunny	Clear/Sunny	0.31	10	0.3	0.8	0.74
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 11:00 AM	2/25/2002 Clear/Sunny	Clear/Sunny	0.39	10.5	0.5	0.8	1.64
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 10:00 AM	3/8/2002 Clear/Sunny	Clear/Sunny	0.36	9	0.68	0.8	1.76
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 9:00 AM	4/2/2002 Overcast	Clear/Sunny	0.38	11.5	0.65	0.8	2.27
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 1:15 PM	5/21/2002 Clear/Sunny	Clear/Sunny	0.46	12	0.6	0.9	2.98
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 9:00 AM	6/4/2002 Clear/Sunny	Clear/Sunny	0.47	11.5	0.4	0.8	1.73
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 9:30 AM	7/25/2002 Clear/Sunny	Clear/Sunny	0.36	9	0.33	0.9	0.96
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 9:00 AM	8/27/2002 Clear/Sunny	Clear/Sunny	0.49	9.33	0.72	0.9	2.96
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 10:00 AM	9/27/2002 Clear/Sunny	Clear/Sunny	0.5	10	0.5	0.8	2
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 9:00 AM	10/18/2002 Clear/Sunny	Showers	0.46	9.5	0.25	0.8	0.87
278 Highland-Pigeon 05140202	Smith Fork bridge at Petersburg Ro	. 9:00 AM	11/8/2002 Clear/Sunny	Showers	0.5	9.5	0.3	0.8	1.14

Biological Data						
		Pollution	Rig	ht Damsel		Left
		Past Tolleranc Stonefly Mayf	ly Caddis Dobsonfly Riffle Water han	ided Fly Dragonfly	Crane Fly Clams/Mu Midge Black Fly	Handed Aquatic Blood Rat-Tailed
Site ID WaterShed Name River Nam	Description Time Date We	ther Weather e Score Larvae Larva	ae FlyLarve Larvae Beetle Penny Sna	ail Nymph Nymph Sowbug Scud	Larvae ssels Larvae Larvae Planaria Leech	Snail Worms Midge Maggot
281 Highland-Pigeon 05140202 West Fork	geon Creek US 41 bridge 11:50 AM 8/15/2001 Cle	r/Sunny Clear/Sunny 14	4 1	5	7	
281 Highland-Pigeon 05140202 West Fork	geon Creek US 41 bridge 1:30 PM 11/30/2001 Cle	r/Sunny Showers 18	2 4	5 2	5	1

Biological Data																				
					Pollution				Right	Damsel							Left			
					Tolleranc Stonefly		Caddis Dobsonfly	/ Riffle Wate		Fly	Dragonfly	/	Crane Fly	Clams/Mu Midge	Black Fly		Handeo			Rat-Tailed
Site ID WaterShed Name River Name	Description Time	Date	Weather P	ast Weather	e Score Larvae	Larvae	Fly Larve Larvae	Beetle Penn	y Snail	Nymph	Nymph	Sowbug Scud	Larvae	ssels Larvae	Larvae	Planaria Lee	ch Snail	Worms	Midge	Maggot
281 Highland-Pigeon 05140202 West Fork Pigeon Creek	US 41 bridge 1:00	PM 1/28/2002	Clear/Sunny C	lear/Sunny	9							12	2					5	1	2
281 Highland-Pigeon 05140202 West Fork Pigeon Creek	US 41 bridge 1:00	PM 2/18/2002	Clear/Sunny C	lear/Sunny	7							1		6						2
281 Highland-Pigeon 05140202 West Fork Pigeon Creek	US 41 bridge 9:00	AM 7/30/2002	Clear/Sunny C	lear/Sunnv	13							4	12	5			2	2		12
281 Highland-Pigeon 05140202 West Fork Pigeon Creek					9							3		2				6	5	3
281 Highland-Pigeon 05140202 West Fork Pigeon Creek					19	>12		3			8	2		>12			2			
281 Highland-Pigeon 05140202 West Fork Pigeon Creek	US 41 bridge 10:30	AM 10/16/2002	Clear/Sunny C	lear/Sunny	10						4	3		2				7		
281 Highland-Pigeon 05140202 West Fork Pigeon Creek					8							2		3					2	10
281 Highland-Pigeon 05140202 West Fork Pigeon Creek	US 41 bridge 12:01	PM 12/9/2002	Clear/Sunny C	lear/Sunny	11							1 5		2				3	1	

Advanced Chemical Data							
				E-			
			Water	coli(coloni	Temp	Total	
			Quality	DO(%Sat es/100mg/	BOD Change	Phosphat Nitrate Turb	oidity(
Site ID WaterShed Name River Name	Description Time	Date Weather	Past Weather Score	DO(ppm) uration) L) pH	5(mg/L) (c)	Temp (c) e(mg/L) NO3(mg/l) NTU	J)
281 Highland-Pigeon 05140202 West Fork Pigeo	Creek US 41 bridge 11:50	AM 8/15/2001 Clear/Sunn	y Clear/Sunny 50.9	9 12 Greater Th 400	8.7 4	1.5 6.5	12
281 Highland-Pigeon 05140202 West Fork Pigeo	n Creek US 41 bridge 1:30	PM 11/30/2001 Clear/Sunn	y Showers 58.0	6 10 110 700	8.5 5	1.5 5	30

									E-						
							Water		coli	(coloni		Temp	Total		
						Past	Quality	DC	(%Sat es/	100mg/	BOD	Change	Phosphat N	litrate T	urbidity(
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Weather	Score	DO(ppm) ura	tion) L)	pН	5(mg	g/L) (c)	Temp (c) e(mg/L) N	IO3(mg/l) N	TU)
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:00 PM	1/28/2002	2 Clear/Sunny	Clear/Sunny	64.66	9	80	1200	8	3	0.8	0.9	20
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:00 PM	2/18/2002	2 Clear/Sunny	Clear/Sunny	67.13	12	104	1200	8.1	4	1	0.7	5
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:30 PM	6/17/2002	2 Clear/Sunny	Clear/Sunny	55.11	8	92	1914	8	2	2	26	45
402 Highland-Pigeon 05140202	West Fork Pigeon Creek	bridge on Coal Mine Rd upstream from wastewater treatment plant	11:00 AM	7/30/2002	2 Clear/Sunny	Clear/Sunny	NA							0.45	
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	9:00 AM	7/30/2002	2 Clear/Sunny	Clear/Sunny	67.25	8	102	33	8.2	3	3.5	6 L	ess Than 15
402 Highland-Pigeon 05140202	West Fork Pigeon Creek	bridge on Coal Mine Rd upstream from wastewater treatment plant			2 Clear/Sunny									0.2	
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	9:00 AM	8/26/2002	2 Clear/Sunny	Clear/Sunny	58.67	8	95	264	8	3	5	17.5	25
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	9:30 AM	9/24/2002	2 Clear/Sunny	Clear/Sunny	63.63	6	63	67	7.6	2	2	1.5	21
402 Highland-Pigeon 05140202	West Fork Pigeon Creek	bridge on Coal Mine Rd upstream from wastewater treatment plant	10:30 AM	9/24/2002	2 Clear/Sunny	Clear/Sunny	NA							0.1	
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	10:30 AM	10/16/2002	2 Clear/Sunny	Clear/Sunny	54.17	7	65	334	8.2	3	4	9	19
402 Highland-Pigeon 05140202	West Fork Pigeon Creek	bridge on Coal Mine Rd upstream from wastewater treatment plant	11:30 AM	10/16/2002	2 Clear/Sunny	Clear/Sunny	NA							0.1	
281 Highland-Pigeon 05140202			11:00 AM	11/13/2002	2 Clear/Sunny	Rain	65.6	10	88	100	7.6	3	1.5	4.5	32
402 Highland-Pigeon 05140202	West Fork Pigeon Creek	bridge on Coal Mine Rd upstream from wastewater treatment plant			2 Clear/Sunny		NA							3	
281 Highland-Pigeon 05140202			12:01 PM	12/9/2002	2 Clear/Sunny	Clear/Sunny	66.1	14	107	166.5	7.5	4	2.5	3.5	20
402 Highland-Pigeon 05140202	West Fork Pigeon Creek	bridge on Coal Mine Rd upstream from wastewater treatment plant	1:45 PM	12/9/2002	2 Clear/Sunny	Clear/Sunny	NA							0.1	

										E-							
							Water			coli(colo	ni		Temp		Total		
							Quality		DO(%Sat	es/100m	ig	BOD	Change		Phosphat	Nitrate	Turbidity(
Site ID WaterShed Name River	Name Descrip	ription T	ime l	Date	Weather	Past Weather	Score	DO(ppm)	uration)	/L)	pН	5(mg/L)	(c)	Temp (c)	e(mg/L)	NO3(mg/l)	NTU)
402 Highland-Pigeon 05140202 West F	Fork Pigeon Creek bridge of	e on Coal Mine Rd upstream from wastewater treatment plant	2:15 PM	3/17/2003	Overcast	Clear/Sunny	NA				34					0.9	19
281 Highland-Pigeon 05140202 West F	Fork Pigeon Creek US 41 I	1 bridge	1:15 PM	3/17/2003	Overcast	Clear/Sunny	57.45	13	120	) 7	30 8	3.1	3		1	26	30
402 Highland-Pigeon 05140202 West F	Fork Pigeon Creek bridge	e on Coal Mine Rd upstream from wastewater treatment plant	11:30 AM	4/18/2003	Overcast	Rain	NA	8	80	)	8	3.1				10	
281 Highland-Pigeon 05140202 West F	Fork Pigeon Creek US 41 I	1 bridge	10:30 AM	4/18/2003	Overcast	Rain	59.2	8	78	31	67 8	8.1	3		1.5	11	40

Habitat Data														
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	I	II	III	IV	V	VI	CQH	IEI
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	11:50 AM	8/15/2001	Clear/Sunny	Clear/Sunny		7	8	0	10	9	10	44
281 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:30 PM	11/30/2001	Clear/Sunny	Showers		7	4	0	3	8	10	32

Habitat D	ata													
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	Ш	III	IV	V	VI	CQH	IEI
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:00 PM	1/28/2002	Clear/Sunny	Clear/Sunny	0	0	0	3	7	6	16
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:00 PM	2/18/2002	Clear/Sunny	Clear/Sunny	7	6	0	5	8	10	36
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	9:00 AM	7/30/2002	Clear/Sunny	Clear/Sunny	5	6	0	5	9	10	35
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	9:00 AM	8/26/2002	Clear/Sunny	Clear/Sunny	5	6	0	3	8	10	32
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	9:30 AM	9/24/2002	Clear/Sunny	Clear/Sunny	5	6	0	3	8	8	30
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	10:30 AM	10/16/2002	Clear/Sunny	Clear/Sunny	5	10	0	3	8	8	34
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	11:00 AM	11/13/2002	Clear/Sunny	Rain	3	2	0	3	8	4	20
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	12:01 PM	12/9/2002	Clear/Sunny	Clear/Sunny	5	4	0	3	8	4	24

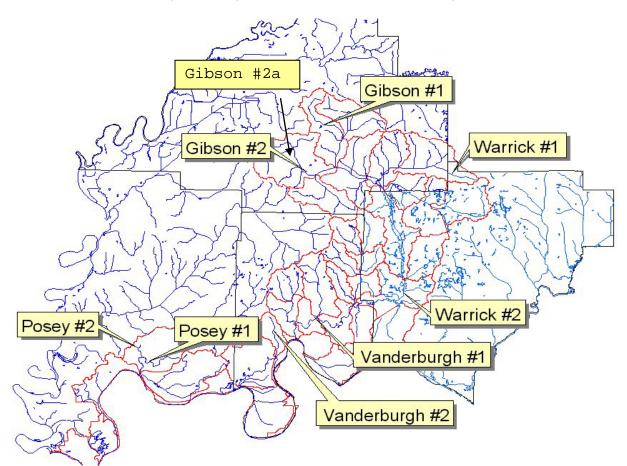
Stream Flow Data
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										Ave		
								Ave	Ave	Velocity(	it/	Discharge
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Depth(ft)	Width(ft)	sec)	n value	(cfs)
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	11:50 AM	8/15/2001	Clear/Sunny	Clear/Sunny	0.65	12	1.	.2 0.	8 7.49
28	1 Highland-Pigeon 05140202	West Fork Pigeon Creek	US 41 bridge	1:30 PM	11/30/2001	Clear/Sunny	Showers	1.12	13	1.	.5 0.0	9 19.66

#### Stream Flow Data

Stream Flow Data										Ave		
								Ave	Ave	Velocity(ft/		Discharge
Site ID WaterShed I	lame River	r Name	Description	Time	Date	Weather	Past Weather	Depth(ft)	Width(ft)	sec)	n value	(cfs)
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	1:00 PM	1/28/2002	Clear/Sunny	Clear/Sunny	0.96	16.5	0.83	0.9	11.83
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	1:00 PM	2/18/2002	Clear/Sunny	Clear/Sunny	0.96	24	1.67	0.9	34.63
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	9:00 AM	7/30/2002	Clear/Sunny	Clear/Sunny	0.58	11	1.2	0.9	6.89
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	9:00 AM	8/26/2002	Clear/Sunny	Clear/Sunny	0.48	11.5	0.95	0.9	4.72
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	9:30 AM	9/24/2002	Clear/Sunny	Clear/Sunny	1.06	12	0.22	0.9	2.52
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	10:30 AM	10/16/2002	Clear/Sunny	Clear/Sunny	0.7	9.5	0.71	0.9	4.25
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	11:00 AM	11/13/2002	Clear/Sunny	Rain	0.83	11.5	0.78	0.9	6.7
281 Highland-Pig	eon 05140202 West	t Fork Pigeon Creek	US 41 bridge	12:01 PM	12/9/2002	Clear/Sunny	Clear/Sunny	0.81	11	0.6	0.9	4.81

Sample Site Locations: Pigeon-Highland Watershed Steering Committee Data, November 2001 to April 2003.

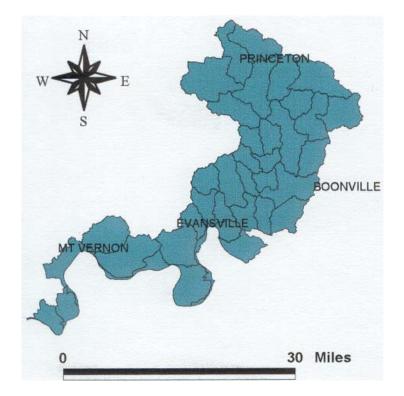


Gibson #1 = Pigeon Creek-Clear Fork, Hoosier Riverwatch Site #165 Gibson #2 = Pigeon Creek-West Fork, HR Site #281 Gibson #2a = Pigeon Creek-West Fork, HR Site #402 Warrick #1 = Smith Fork, HR Site #278 Warrick #2 = Pigeon Creek-Heim Rd., HR Site #66 Vanderburgh #1 = Pigeon Creek-Heidelbach, HR Site #75 Vanderburgh #2 = Carpentier Creek, HR Site #221 Posey #1 = trib. of McFadden Cr. At SR69 bypass, HR Site #65 Posey #2 = trib. of Mcfadden Cr. At Seibert Rd, HR Site #279

# Watershed Management Plan

For

# **Highland-Pigeon Watershed**



Appendix	<u>C</u> :	Summary	of	Combined	Sewer
Overflow	Effe	cts			

### Combined sewer overflow (CSO) Monitoring

Rainfall and CSO events were monitored between January 2000 and September 2000. Rainfall events were monitored using an existing rain gauge at CSO No. 025 (Diamond Avenue). The frequency and magnitude of CSO events was monitored using existing measurement equipment at three CSO outfalls, deemed representative of the system. Based upon the characteristics of all permitted CSO outfalls to Pigeon Creek three CSOs were selected for monitoring (Harza 1999):

CSO No. 025 – Diamond

CSO No. 011 - Oakhill/Weinbach

CSO No. 012 - Maryland

ADS Environmental Services, Inc. of Indianapolis provided installation and maintenance services for CSS monitoring equipment. It was intended to use their automatic recording ultrasonic velocity meters and pressure transducers to compute overflow hydrographs. However, quality control questions about data reliability precluded the use of this data. Instead, data from the existing "totalizers" at each outfall were used. These compute daily flow volumes based on hydraulic head and gate opening at each CSO.

Automatic samplers were installed and operated to monitor CSO discharge quality. The automated samplers were installed at CSO Nos. 025 and 011, Diamond and Oakhill. Sampling was initiated manually, with samples taken at 15-minute intervals for two hours, followed by sampling at 30-minute intervals for two hours. Generally, 12 samples were collected over a four-hour period for each monitored wet weather discharge event. This sampling was paired with manual sampling of Pigeon Creek at five locations during the event. Details on sampling and analytical methods may be found in the QAPP (Harza 1999).

#### Frequency and Magnitude of Combined Sewer Overflows

During the 8-month monitoring period, cumulative overflow volumes were recorded by the totalizers at CSO Nos. 025, 012, and 011 (Diamond, Maryland, and Oakhill respectively) through the gate just downstream of the diversion point (throttle pipe) to the wastewater treatment plant and the overflow control structure. The volumes measured therefore represented the total overflow and do not include flows to the treatment plant.

Frequency and magnitude of overflows were evaluated based on data collected between January 18, 2000 and August 15, 2000. During this 211-day time period, there was a complete record of overflows for all three locations. EMC staff routinely visit each CSO station daily, except for weekends and holidays, and record the totalizer readings. There were 13 CSO events at Oakhill, 37 events at Maryland, and 28 at Diamond during the 211-day period. There were approximately two CSOs per month at Oakhill, five per month at Maryland and about four per month at Diamond. CSO volumes were generally three times greater at Maryland than at Oakhill and twice the CSO volumes at Diamond. The average CSO at Maryland was 43 million gallons, compared to 14 million at Oakhill and 21 million at Diamond.

OVERFLOW EV	RFLOW EVENTS AT OAKHILL	
Date	Volume (MG)	
02/14/00	7.53	
02/22/00	41.60	
02/24/00	0.18	
02/28/00	12.30	
03/16/00	1.41	
03/17/00	13.42	
03/20/00	1.43	
04/10/00	3.95	
07/03/00	0.03	
07/12/00	78.57	
07/19/00	16.51	
07/31/00	0.04	
08/28/00	3.03	

<b>OVERFLOW EVENTS AT MARYLAND Date</b>	
Volume (MG)	

01/18/00	5.15
02/14/00	26.27
02/18/00	37.57
02/22/00	753.96
02/24/00	202.00
02/28/00	121.63
03/13/00	2.51
03/16/00	29.96
03/17/00	19.28
03/20/00	64.81
03/21/00	1.11

03/27/00	2.95
04/10/00	62.75
04/28/00	2.01
05/08/00	0.80
05/10/00	0.73
05/15/00	0.30
05/19/00	6.12
05/24/00	4.32
05/30/00	8.92
06/05/00	0.32
06/06/00	0.38
06/15/00	6.26
06/19/00	110.23
06/21/00	12.86
06/26/00	14.56
06/27/00	8.56
06/28/00	1.94
07/03/00	1.86
07/05/00	5.02
07/12/00	0.58
07/19/00	11.76

OVERFLOW EVENTS AT MARYLAND Date	Continued Volume (MG)
07/31/00	6.10
08/08/00	3.18
08/09/00	1.22
08/24/00	11.89
08/28/00	25.11

	ENTS AT DIAMOND
Date	Volume (MG)
01/18/00	6.12
02/14/00	20.56
02/18/00	62.21
02/22/00	224.44
02/24/00	47.57
02/28/00	47.55
03/16/00	14.62
03/17/00	15.67
03/24/00	1.00
03/27/00	1.95
04/10/00	20.25
05/19/00	3.67
05/24/00	11.78
05/30/00	4.33
06/19/00	37.70
06/21/00	8.42
06/22/00	3.94
06/26/00	3.27
06/27/00	12.01
06/28/00	1.73
07/05/00	3.16
07/12/00	3.54
07/19/00	6.69
07/31/00	4.37

OVERFLOW EVENTS	
AT DIAMOND	continued
08/09/00	4.32
08/24/00	9.27
08/28/00	12.06

#### Water Quality Effects

Automated samplers at the Maryland and Diamond CSOs took samples during select events between February and August 2000. Combined sewage samples were analyzed for suspended solids, BOD, *E. coli*, phosphorus, total Kjeldahl nitrogen (TKN), ammonia nitrogen, arsenic, zinc, chromium, copper, lead, cadmium and nickel. Typically, twelve samples were collected at each CSO during an overflow event. During the monitoring period, concurrent surface water samples were also taken. Creek samples were collected manually at five locations once during each sampling events. Creek samples were taken from PC7, upstream of all CSOs, PC4, PC3, PC2 and Highway 62.

To assess the impacts of the CSOs to water quality, we compared the sampling results to Indiana surface water standards. The exceedances of standards were limited to *E. coli* bacteria (Table 39). The Indiana standard for E. coli is a recreational standard and a maximum at 235, measured as bacteria per 100 mL. Four out of the five storm events we sampled surpassed the *E. coli* limit. Sampling station PC7 is upstream of CSOs and reflects nonpoint and point source coliform loadings from the upper watershed. Note that these upstream sources also cause the creek to exceed the state water quality standard. PC4 is downstream of Oakhill CSO and upstream of all other CSOs, including Diamond and Maryland. PC3 is downstream of two more CSOs, including Diamond Avenue. PC2 is located upstream of Dresden CSO (014) as well as Maryland, and downstream of 6th Avenue (CSO 017). The sample at US Highway 62 is near the Ohio River, below all Pigeon Creek CSOs.

Storm Event	PC7	PC4	PC3	PC2	Hwy 62
02/13/00	No creek :	samples collect	ed		
03/16/00	3,100	10	45,000	10,000	23,000
05/23/00	55	15	25	8	28
06/21/00	270	370	1,140	1,710	640
08/08/00	570	510	580	360	240
08/18/00	3,500	27,000	39,900	50,000	17,100

### 

Concentrations are plotted against distance from the mouth of the Ohio River. As points of reference, the locations of various CSOs and the Little Pigeon and Locust Creeks are also included.

**Phosphorus.** Based on the data collected, phosphorus concentrations are relatively constant at all points along Pigeon Creek in the CSO impact area. We generally did not observe more than a 0.3 mg/L fluctuation between sampling points during any given storm event. In all monitored events, there was either no change or a decrease in phosphorus concentrations upstream of the CSOs, as represented by the PC7 sample, or downstream past the Oakhill outfall to PC4. It would therefore appear that the Oakhill CSO has a minor contribution to the watershed's overall phosphorus budget. Downstream of PC4, the Diamond (CSO 025) and Baker (CSO 024) outfalls discharge, contributing pollutants that would have been measured at the PC3 sampling location. In three of the five events, significant increases in phosphorus concentrations were observed at PC3. Typically concentrations were relatively stable or decreased downstream of PC3, at PC2, PC1, and through the final monitoring location at US Highway 62, below all Pigeon Creek CSOs. The state does not have a water quality standard for phosphorus, although nutrient criteria may be developed in the next five vears.

**BOD.** With the exception of the May 23, 2000 event, BOD in Pigeon Creek during wet weather was relatively unaffected by the CSO loads. The March 16, 2000 storm event data indicate a dramatic increase between the BOD concentrations at the PC4 and PC7 sampling points. We believe the BOD analysis of the PC7 sample is not representative of instream water quality and may be due to sampling or measurement error. The general BOD trend seems to be one of minor contributions from Evansville's CSOs.

Suspended Solids. While there is substantial noise in the data, the suspended solids concentrations along the waterway seem to be unaffected by the CSO inflows. We attribute this noise to the lack of flow-weighted sampling and incomplete mixing downstream of CSOs discharges. During all monitored storm events, TSS levels are high throughout the creek reach we studied, including PC7, upstream of the CSOs. The data do not provide clear evidence for an adverse effect of Evansville's CSOs.

Maryland and Diamond CSO subsystems serve areas considered to be at different levels of risk for soil erosion. Diamond subsystem has a high rating for soil erosion and

potential solids and floatables impacts, but Maryland has a low potential for soil erosion (but high potential for potential solids and floatables impacts). Peak concentrations in the combined sewage of the two CSOs were similar, although Maryland's was typically slightly higher than that found in Diamond Avenue sewage.

**E.** coli. As discussed earlier, the *E. coli* concentrations (measured per 100 mL) are consistently high during all except the May 23, 2000 storm event and over the entire distance of the creek. There is often an increase in *E. coli* concentrations going from the first data point at PC7 to PC4. This increase occurs in two out of the five storm events. In addition, aside from some variation, the general trend downstream is for the *E. coli* concentration to increase. Even when there are decreases within the data, the *E. coli* levels are higher than the recreational water quality standard. There is a frequent increase from PC4 downstream to PC3 in *E. coli* concentration, suggesting that the Baker Street (CSO 024) and/or Diamond Avenue (CSO 025) have compounding effects on receiving water quality.

Historically, concentrations of *E. coli* in Pigeon Creek have commonly exceeded the state's standard, both upstream and downstream of the CSO area of influence. There are point and/or nonpoint sources of coliforms upstream of Evansville that contaminate the stream, confirmed by watershed sampling.

<u>Ammonia Nitrogen.</u> Creek concentrations reach no more than 4 mg/L in any storm event. Instream temperature and pH measurements were not taken, so the concentration of ammonium ion cannot be estimated properly. Ammonia nitrogen concentrations generally decrease over the stretch of the sampling area.

**Total Kjeldahl Nitrogen (TKN).** The TKN data also contain a considerable amount of noise. Because of this, it is difficult to draw conclusions regarding the impact of the CSOs on TKN. In four out of five events, increases in TKN concentration were observed downstream of PC7, but, by Hwy 62, may return to the levels found upstream (at PC7).

<u>Nitrate Nitrogen.</u> Nitrate concentrations exhibit less fluctuation along the CSO-affected stretch of the creek. The largest change in concentration from one sampling point to the next was 0.8 mg/L, with the other fluctuations being well below that. We conclude that the nitrate loads from the CSOs and streams do not significantly affect the instream nitrate concentrations.

<u>Metals.</u> The Maryland CSO subsystem serves an area of moderate residential population, moderate industrial development, with a low risk of a hazardous material spill. Diamond CSO subsystem serves an area of relatively moderate residential population, relatively high industrial development, with a high risk of a hazardous material spill. We monitored several heavy metals in the two CSOs. Arsenic concentrations were similar in Diamond and Maryland discharges. In no cases was arsenic in the CSO discharge measured to exceed acute aquatic criteria in 327 IAC 2-1-6, assuming 100 mg CaCO3/L hardness.

Maximum zinc concentrations were 0.5 mg/L in each of the two monitored CSOs . Again, assuming 100 mg/L hardness, we observed two samples to exceed the zinc acute aquatic criteria in 312 IAC 2-1-6.

In four of five discharge events, maximum chromium and copper concentrations in Maryland were higher than Diamond. Chromium in the CSO discharge was not measured to exceed the State's acute aquatic standards in either outfall, however copper values did in both.

For lead, Diamond CSO exhibited higher concentrations than Maryland, and exceeded the acute aquatic criteria. Maryland discharge was not measured to exceed the lead acute aquatic criteria. Nickel concentrations were similar in the two discharges, and were well below the criteria.

#### **5.4 MUNICIPALITIES, SENSITIVE AREAS AND RECREATIONAL FACILITIES**

Federal and state CSO policies require that the highest priorities be given to controlling overflows to waterways in sensitive areas. Therefore, as part of developing the longterm control plan, the EWSU is expected to identify all sensitive waterbodies and the CSO outfalls that discharge to them. Sensitive areas have been defined by the US EPA as:

National Marine Sanctuaries Outstanding National

**Resource Waters** 

Waters with threatened or endangered species or their designated critical habitats Primary contact recreation waters, such as bathing beaches,

Public drinking water intakes or their designated protection areas, and, Shellfish beds

The State of Indiana only recently defined outstanding national resource waters (SEA, Section 17, adds IC 13-18-3-2(d) effective July 1, 2000) and none are yet designated in the study area or Ohio River. There are also no national marine sanctuaries in the study area. The only recording of a state or federally listed species occurring in the Pigeon Creek floodplain downstream of the Oakhill discharge (CSO #011) is the hellbender, a giant aquatic salamander. Hellbender is a state-listed endangered species. Hellbenders prefer clear fast-flowing streams and rivers with rocky bottoms (Behler and King 1998). They are reclusive, hiding under rocks, feeding on macroinvertebrates. Pigeon Creek in Evansville is generally sluggish and turbid with a silt, sand or gravel bottom. There is no date in DNR's database for the last sighting of hellbenders in Evansville. Even with elimination of CSO discharges, Pigeon Creek will remain sluggish and turbid due to its low gradient, backwater effects of the Ohio River, and nonpoint pollution sources of siltation from upstream areas.

There are no primary contact recreation waters in that portion of Pigeon Creek within the CSO area of influence. Heidelbach canoe launch is located on Pigeon Creek approximately two miles downstream of the Oakhill discharge (CSO #011). Canoeing is secondary contact recreation, and would not be expected to occur during or shortly after a storm event. Also the Pigeon Creek Greenway starts at the Heidelbach canoe launch and continues downstream to the Ohio River. The Greenway trail is separated from Pigeon Creek by a minimum 50 to 100-foot wide forest or prairie buffer and steep muddy banks. Similarly the Greenway is not typically used during or shortly after storms, and, the muddy banks and forest buffer provide a barrier discouraging contact with the creek. The entire reach of Pigeon Creek affected by CSO discharges is signed by EWSU to caution users against contact recreation after wet weather.

There are no public water intakes in the Pigeon Creek CSO area. The City of Evansville's intake is in the Ohio River, upstream of Pigeon Creek, north of Sunset Park.

Pigeon Creek harbors freshwater mussels. There are no shellfish beds that are harvested for food there, which is EPA's general regulatory focus. Freshwater mussels are threatened nationally due to water quality and habitat degradation. The CSOs are an example of water quality degradation, but no threatened or endangered species of mussels are recorded for this area.

Seveal locations along Pigeon Creek that may fit IDEM's "priority area" designation are the Hiedelbach Canoe Launch, Kleymeyer Park, Garvin Park, and Nut Club Field. These areas should be given priority attention in the city's long-term CSO control plan.

# CONCLUSIONS AND RECOMMENDATIONS

The data collected as part of this study has served to confirm that there are frequent combined sewage overflows from the Evansville sewer system. There is very little baseline data available on Evansville's CSOs. It is therefore difficult to quantify what decrease in frequency and magnitude of CSO discharges have occurred by implementation of the nine minimum controls. The seven automated control structures constructed in 1980 and upgraded in 1990 undoubtedly reduce the frequency and volume of discharges from the largest Pigeon Creek CSOs. Many collection system and treatment plant projects in recent years have also helped reduce overflows. Sewer separation and inflow and infiltration projects planned and in-progress are helping lessen CSO loadings. Forthcoming Phase II Storm Water Regulations will also eventually aid in CSO reduction. Environmental education efforts will also expand as the LTCP elements are completed.

This report recommends several courses of action be taken to directly and indirectly reduce CSO discharges to Pigeon Creek. Those recommendations include development of a monitoring and modeling plan, continued sewer separation, increasing primary treatment at the wastewater plants (when approved by the IDEM), continued inflow and infiltration reduction efforts, inline storage projects, and a runoff control program. The LTCP, which has been initiated, will consider the feasibility of these and additional technology-based CSO controls.

Evansville, as all other CSO municipalities in Indiana, will be required to develop a technically feasible, affordable, and comprehensive LTCP consistent with the CSO Control Policy. That Policy is intended to document how and when a community will meet the Clean Water Act requirements. The two main methods to demonstrate compliance were the Demonstration and the Presumption Approaches.

- The Presumption Approach requires that the LTCP implementation will result in:
  - No more than an average of four overflow events a year
  - The elimination or capture of no less than 85% by volume of the combined sewage collected in the CSS during precipitation events on a system-wide annual average basis
  - The elimination or removal of no less than the mass of the pollutants identified as causing water quality impairment through the sewer system characterization, monitoring, and modeling effort for the volumes that would be eliminated or captured for treatment

Computer modeling during the LTCP will estimate the reduction in overflow volume that the seven automated structures have created since their construction. However, it is unlikely that the Presumption Approach will suffice on Pigeon Creek due to the criteria of no more than an average of four overflow events yearly. The Demonstration Approach requires successfully demonstrating compliance with the following criteria:

- The planned control program is adequate to meet water quality standards and protect designated uses, unless standards or uses cannot be met as a result of natural background conditions or pollution sources other than CSOs
- The CSO discharges remaining after implementation of the planned control program will not preclude attainment of water quality standards or the receiving waters designated uses or contribute to their impairment
- The planned control plan will provide the maximum pollution reduction benefits reasonably attainable, and
- The planned control program is designed to allow cost-effective expansion or costeffective retrofitting if additional controls become necessary to meet standards or designated uses

Consequently, as part of this study, we have attempted to indicate if Evansville can demonstrate that it meets the water quality based objectives of the Clean Water Act through use of the Demonstration Approach.

In addition to these two approaches to CSO control, the State of Indiana is presently developing guidance for the creation of CSO controls that are practical and cost-effective. Senate enrolled Act 431, signed into law on March 17, 2000, requires the IDEM to develop guidance for Combined Sewer municipalities on how to comply with the Act. More specifically, the guidance will detail the process and procedures with which municipalities must comply in order to develop and submit a LTCP and an Use Attainability Analysis that may be approved by IDEM and the EPA.

The provisions of SEA 431 authorize the temporary suspension of designated uses and associated water quality criteria, provided certain requirements are met. An Use Attainability Analysis (UAA) is a structured scientific assessment of the physical, chemical, biological, and economic factors affecting the attainment of a designated use as defined in 40CFR 131.3(g). The UAA provides a process by which a CSO community may demonstrate that a designated use is not attainable and may obtain a temporary suspension of that designated use. Much of the information required in the UAA is the same as what is required in the LTCP; therefore, IDEM will use the approved LTCP as much as possible to satisfy the requirements of the UAA.

It should be noted that the guidance for these requirements is presently being created. The eventual outcome should be a more realistic approach to CSO controls. Evansville's LTCP and UAA will determine exactly which route best serves both pollution prevention and fiscal responsibility.

As a component of this Pigeon Creek Watershed Diagnostic Study, the SRCER for Pigeon Creek is included. The broad scope of this watershed analysis actually includes more information than required by the SRCER. The data acquired for the chemical, physical, and biological health of the watershed should benefit all parties involved. Evansville will probably find that a combination of the Demonstration Approach and the provisions of SEA 431 will be the best method of CSO reduction. From the available water quality data, we can confirm that Pigeon Creek is affected by CSO discharges of *E. coli* bacteria and that this water quality standard is regularly exceeded during wet weather. No other water quality standards, as monitored as part of this study, are conclusively and adversely impacted by the CSOs.

Historic concentrations of *E. coli* in Pigeon Creek have commonly exceeded the state's standard, both upstream and downstream of the CSO area of influence. There are point and/or nonpoint sources of coliforms upstream of Evansville that contaminate the stream, confirmed by our sampling.

Despite this relatively minor impact of CSO's discharges to water quality in Pigeon Creek, there are still a number of measures that EWSU should continue to optimize the operation of the sewer system and further reduce CSO's and their adverse impacts on water quality in Pigeon Creek. Recommended measures are as follows:

#### **Monitoring and Modeling Plan**

EWSU should continue development of a Monitoring and Modeling Plan as part of the LTCP for the sewer system. This will assist the Utility in developing a full understanding of the sewer system, its response to various precipitation events, and the characteristics of the overflows. The monitoring program will also serve to confirm the findings of this study and help establish the effectiveness of the CSO controls implemented to date.

Using the model, hydraulic restrictions in the system could be eliminated if flow monitoring work verifies modeling parameters. Specifically, restrictions in throttle pipes at CSOs 009, 012, 016 and 025, which may be at or near their capacity, should be investigated. If upsizing of throttle pipes is warranted, further study of capacity remaining in the Pigeon Creek Interceptor may be necessary.

#### **Continued Sewer Separation**

EWSU currently operates both separate sanitary and combined sewers in the various subsystems. However, in a number of cases, separate sanitary sewers discharge to downstream combined sewers for conveyance of the wastewater to the two treatment plants. For example, the Pfeiffer pump station discharges sanitary sewage for Basin W10 into the 102" CS in Basin W6. This discharge is upstream of Diamond CSO (025) on the 102" line. Consequently, during precipitation events, this sanitary sewage is contributing to the overflows or may in fact be the cause of the overflow.

The recommendation now is for EWSU to review options for keeping the sanitary sewage separate from the combined sewers. This can be done by installing a separate sanitary interceptor line that terminates at one of the two wastewater treatment plants. This objective may also be achieved by investigating measures that will allow sanitary sewage to be given priority for discharge into the existing combined sewer interceptors, such as the Pigeon Creek Interceptor. The objective of either of these approaches will be to remove separate sanitary sewage from combined sewage overflows, thus changing the characteristics of such overflows and improving water quality.

It is our understanding that a third treatment plant has been proposed for Evansville and that, thus far, much of the separately sewered areas will be diverted to this new plant. A decision to proceed in this manner will be fully compatible with this approach and will achieve the objective of keeping separate sewage out of the combined sewers.

#### **Treatment Plant Operation**

EWSU should approach IDEM with a request for utilizing the existing unused primary treatment capacity at the treatment plants during wet weather. This will allow EWSU to capture and treat a greater percentage of the flows and reduce overflows of untreated combined sewage.

In order to implement such actions, EWSU must also review the capacity of its conveyance system to the plants, and determine whether there is sufficient sewer capacity to deliver the larger flows to the WWTPs. If not, EWSU must review options for increasing sewer capacity to be able to maximize primary treatment at the plants.

#### **Inflow and Infiltration Reductions**

It is recommended that all commercial and industrial structures be inspected to identify all sources of inflow and infiltration to the sewer system. Efforts should be made to disconnect such direct sources of inflow, such as downspouts, as much as possible.

The inflow/infiltration monitoring program should be expanded in the combined sewer system. As problems are identified, they should be corrected.

#### **Inline Storage**

A gate control system, which would control the non-automated CSOs to Pigeon Creek and the Ohio River, would allow the storage of combined sewerage in the interceptors tributary to the diversions. This gate control system could provide about 154,5000 cubic feet (11.6 MG) of storage. To obtain the full amount of storage, available, additional weirs, gates, etc. may be necessary. A study to investigate the feasibility of such a system, and the condition of the sewers at the storage sites (to avoid damage from surcharging) is warranted. This option will be further investigated during development of the LTCP.

# **Runoff Control Program**

Evaluation of a runoff control program to store and control runoff before it enters the combined system is also recommended. The feasibility and effectiveness of this alternative and others requires development of a system model, scheduled for completion as part of the LTCP.

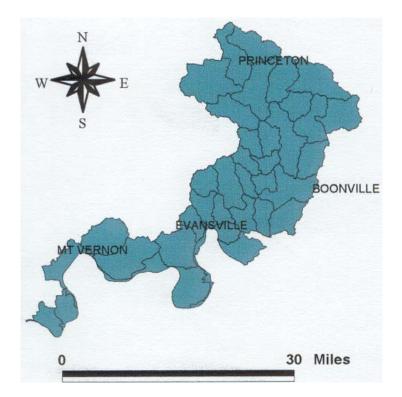
# LTCP

EWSU has retained a consultant to develop a long-term CSO control plan (LTCP) for their sewer service area. The LTCP will include the following elements:

- 1. The LTCP must be consistent with the federal CSO Policy (58 Fed. Reg. 18688). The LTCP must be approved by the IDEM and ultimately implemented by the CSO community according to a schedule determined by the IDEM.
- 2. The LTCP must be developed with public participation, using a process designed to promote active involvement by the affected public.
- 3. The LTCP must use characterization, monitoring and modeling of the combined sewer system to determine:
  - a. the response of the combined sewer system to various precipitation events;
  - b. the characteristics of the overflows from the combined sewer system (volume and pollutants), and
  - c. the water quality impacts that result from the overflows
- 4. The LTCP must contain an evaluation of a reasonable range of control alternatives, taking into account expected and projected future growth.
- 5. The LTCP must consider the impact of CSOs on sensitive areas and give highest priority to controlling overflows in those areas.
- 6. The LTCP must contain cost and performance analysis of the control alternatives evaluated.
- 7. The LTCP must maximize treatment of wet weather flows at the treatment plant.
- 8. The LTCP must contain a practical implementation schedule for the selected control alternative.
- 9. The LTCP must contain a post-construction compliance monitoring program adequate to ascertain:
  - a. the effectiveness of the selected control alternative; and
  - b. the extent to which water quality standards have been attained.

For

## **Highland-Pigeon Watershed**



# Appendix D: Data from Harza Diagnostic Study and PHWSC for McFadden Creek

Site	Water body	Substrate	Cover	Channel	Riparian	Pool	Riffle	Gradient	QHEI
MF-1	McFadden Creek	10	7	7	9	7	2	10	52
MF-2	McFadden Creek	16	9	8	12	7	1	10	63
MF-3	Second Tributary*	14	7	8	10	4	1	4	48
MF-4	Fourth Tributary*	16	8	10	10	4	2	6	56
MF-5	McFadden Creek	5	4	9	12	8	4	10	52
MF-6	Fifth Tributary*	4	6	9	9	6	4	8	46
MF-7	McFadden Creek	7	7	9	8	8	5	4	48
MF-8	McFadden Creek	. 5	7	7	6	6	4	4	39
MF-9	Eleventh Tributary*	12	6	6	6	4	4	4	42
MF-10	Tenth Tributary*	3	4	6	6	3	1	10	33

### QUALITATIVE HABITAT EVALUATION INDEX

\* Tributaries are denoted numerically from downstream to upstream.

Harza Substrate Evaluation

### SUBSTRATE QUALITY SCORING

Site	Waterbody	Silt Cover (points)	Extent of Embeddness (points)
MF-1	McFadden Creek	Silt normal (0)	Moderate (-1)
MF-2	McFadden Creek	Silt normal (0)	Low (0)
MF-3	Second Tributary*	Silt moderate (-1)	Moderate (-1)
MF-4	Fourth Tributary*	Silt normal (0)	Low (0)
MF-5	McFadden Creek	Silt moderate (-1)	Moderate (-1)
MF-6	Fifth Tributary*	Silt moderate (-1)	Moderate (-1)
MF-7	McFadden Creek	Silt normal (0)	Low (0)
MF-8	McFadden Creek	Silt moderate (-1)	Moderate (-1)
MF-9	Eleventh Tributary*	Silt moderate (-1)	Moderate (-1)
MF-10	Tenth Tributary*	Silt heavy (-2)	Extensive (-2)

Harza In-situ water quality data, May 2000

### IN-SITU WATER QUALITY DATA

Site	Waterbody	Sampling Date	Temp (°C)	Conductivity (umhos/cm)	pН	DO (mg/L)	% DO Saturation
MF-1	McFadden Creek	5/11/00	19.1	642	7.93	14.9	164%
MF-2	McFadden Creek	5/11/00	20.1	628	7.98	14.8	161%
MF-3	Second Tributary*	5/11/00	21.2	534	8.08	17.8	199%
MF-4	Fourth Tributary*	5/11/00	22.4	649	8.22	19.0	220%
MF-5	McFadden Creek	5/13/00	22.7	599	7.90	14.0	165%
MF-6	Fifth Tributary*	5/13/00	21.6	593	7.70	12.1	137%
MF-7	McFadden Creek	5/13/00	23.4	617	7.94	15.0	179%
MF-8	McFadden Creek	5/13/00	23.9	612	8.20	18.0	220%
MF-9	Eleventh Tributary*	5/9/00	24.6	541	8.90	30.0	370%
MF-10	Tenth Tributary*	5/9/00	24.8	681	8.61	33.0	400%

\* Tributaries are denoted numerically from downstream to upstream, totaling 13.

# LABORATORY WATER QUALITY DATA

Site	<i>E. coli</i> (cfu/100ml)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mgN/L)	Ammonia (mgN/L)	Phosphorus (mg/L)	BOD (mg/L)	Total Suspended Solids (mg/L)
MF-1	300	1.5	2.2	0.11	0.39	<2.5	28
MF-2	400	1.1	2.3	0.09	0.39	<2.5	36
MF-3	180	<1.0	1.5	0.54	0.32	<2.5	16
MF-4	1,200	3.9	4.8	0.41	0.36	<2.5	6
MF-5	380	2.1	1.6	0.34	0.38	<2.5	76
MF-6	700	<1.0	< 0.05	0.57	0.38	<2.5	83
MF-7	150	2.1	1.8	<0.03	0.38	<2.5	68
MF-8	240	1.8	3.3	0.15	0.41	<2.5	120
MF-9	180	<1.0	3.6	0.26	0.33	<2.5	10
MF-10	23	1.3	3.5	0.81	0.26	3.3	3.5

Harza Laboratory Water Quality Data, May 2000

### Harza Macroinvertebrate Data

Parameter	MF-1	MF-2	MF-3	MF-4	MF-5	MF-6	<b>MF-7</b>	MF-8	MF-9	MF-10
Taxon Richness	9	12	6	5	15	8	12	11	6	8
Family Biotic Index	7.14	7.28	7.54	6.41	7.32	7.93	6.88	7.74	7.58	7.83
Ratio of Scraper/Filterer	0.5	2.5	(0/0)	(4/0)	77	(29/0)	(44/0)	(105/0)	35.5	5.1
Ratio of EPT/Chironomidae	0.06	0.06	(0/20)	(0/6)	0.14	(0/1)	(0/42)	(0/6)	(0/20)	(0/8)
% Contribution Dominant Family	30	49	74	53	46	58	32	62	29	67
EPT Index	1	1	0	0	1	0	0	0	0	0
Ratio of Shredder/Nonshredder	0.24	0.69	1.00	0.45	0.02	0.89	(0/50)	0.06	0.50	0.04
Total Number Collected	104	159	145	121	167	151	129	170	124	113

### MACROINVERTEBRATE MATRIX SCORES

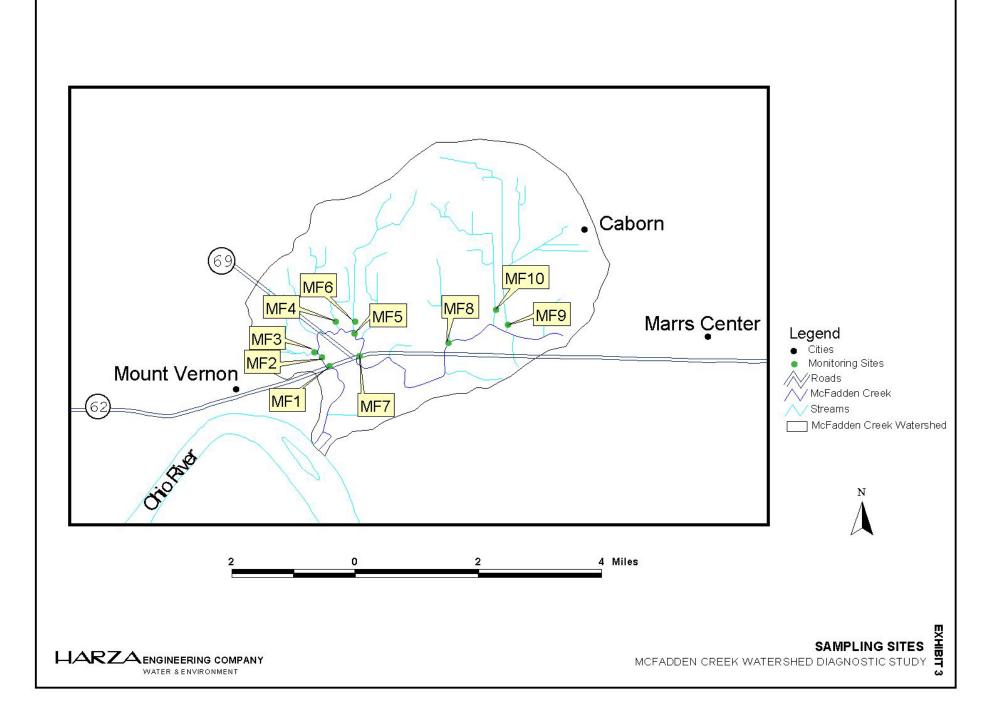
Harza Flow Data

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### STREAMFLOW MEASUREMENTS

Site	Water body	Discharge (ft <sup>3</sup> /sec)
MF-1	McFadden Creek	2.4
MF-2	McFadden Creek	2.3
MF-3	Second Tributary*	0.4
MF-4	Fourth Tributary*	0.2
MF-5	McFadden Creek	Too deep to wade
MF-6	Fifth Tributary*	0.8
MF-7	McFadden Creek	1.6
MF-8	McFadden Creek	1.8
MF-9	Eleventh Tributary*	0.7
MF-10	Tenth Tributary*	0.2

Tributaries are denoted numerically from downstream to upstream



### MCFADDEN CREEK BIOASSESSMENT SAMPLING SITES

STATION	DESCRIPTION	RATIONALE
MF-1	McFadden Creek at SR62	Most downstream most site
MF-2	McFadden Creek at unnamed trestle bridge	Historic fly dumping site
MF-3	Second (unnamed) tributary	Tributary mouth; drains agricultural and subdivision areas
MF-4	Fourth (unnamed) tributary	Large agricultural subbasin
MF-5	McFadden Creek at 350 East Bridge	Downstream of NPDES discharge
MF-6	Fifth (unnamed) tributary	Large agricultural subbasin
MF-7	McFadden Creek at SR62	Upstream of NPDES discharge
MF-8	McFadden Creek at 500 East Bridge	Channelized reach
MF-9	Eleventh (unnamed) tributary, at 600 East Bridge	Channelized reach; agricultural drainage with numerous oil wells
MF-10	Tenth (unnamed) tributary	Agricultural drainage; numerous oil wells

Biological Data

			Pollution					Right	Damsel									Left			Rat-
		Past	Tolleranc Stonefl	y Mayfly	Caddis	Dobsonfly R	iffle Wate	r handed	Fly	Dragonfly	/		Crane Fly	Clams/Mu Mid	ge Black F	У		Handed	Aquatic	Blood	Tailed
Site ID WaterShed Name River Name Description	Time Date Weather	Weather	e Score Larvae	Larvae	Fly Larve	Larvae B	eetle Penn	y Snail	Nymph	Nymph	Sowbug	Scud	Larvae	ssels Lar	vae Larvae	Planaria	Leech	Snail	Worms	Midge	Maggot
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	12:00 PM 1/26/2001 Overcast	Overcast	24		1 1	1					1	1	1	1				1	1		1
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM 3/2/2001 Clear/Sunny	Clear/Sunny	/ 17	1	1	1					1			1				1	1		
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass		Clear/Sunny	25				1		1		1	1	1	1				1	1	1	1
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	12pm 4/20/2001 Clear/Sunny	Clear/Sunny	/ 21			x				x	х	х		х		х	х	х			
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM 6/4/2001 Overcast	Showers	13			х				x				х			х	х			
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM 6/21/2001 Overcast	Stormy	11				8			1:	2			7					6		
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	11:30 AM 11/12/2001 Clear/Sunny	Clear/Sunny	/ 10				1				5	0 2	25								
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM 11/12/2001 Clear/Sunny	Clear/Sunny	/ 15							4	4 1:	2 .	12	1				3	12		
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM 8/14/2001 Clear/Sunny	Clear/Sunny	/ 12				40				1			3					24		11
280 Highland-Pigeon 05140202 McFadden Creek bridge on Gun Club Rd.	2:30 PM 8/14/2001 Clear/Sunny	Clear/Sunny	/ 11				24			13	2			2					30		

Biological Data

-		Pollution				Right	Damsel								Left			Rat-
		Tolleranc Stone	fly Mayfly	Caddis Dobsonfly Riffle	Water	handed	Fly	Dragonfly			Crane Fly	Clams/Mu Midge	Black Fly		Handed	Aquatic	Blood	Tailed
Site ID WaterShed Name River Name Description	Time Date Weather Pa	ast Weather e Score Larva	e Larvae	Fly Larve Larvae Beetle	Penny	Snail	Nymph	Nymph \$	Sowbug S	cud	Larvae	ssels Larvae	Larvae	Planaria Leech	Snail	Worms	Midge	Maggot
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	11:00 AM 2/6/2002 Overcast CI	lear/Sunny 6							8	5								
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM 3/6/2002 Clear/Sunny St	howers 12							24	20		12			6	4		
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	2:15 PM 3/6/2002 Clear/Sunny Cl								3	4					1			
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	1:00 PM 4/17/2002 Clear/Sunny Cl	lear/Sunny 9							10	10							3	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM 4/17/2002 Clear/Sunny Cl	lear/Sunny 17					2	1	10	10					3	8	4	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM 5/22/2002 Clear/Sunny Cl	lear/Sunny 11							20	8		3				1	8	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	12:45 PM 5/22/2002 Clear/Sunny Cl	lear/Sunny 6							15	10								
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	3:00 PM 6/18/2002 Clear/Sunny Cl	lear/Sunny 8							10	2						2		3
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM 6/18/2002 Clear/Sunny Cl	lear/Sunny 13			1		1		10							15		15
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	10:00 AM 9/26/2002 Clear/Sunny Cl	lear/Sunny 5													2	12	6	1
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM 10/17/2002 Clear/Sunny Or	Overcast 13							10	4	2			1		50	4	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	3:00 PM 11/7/2002 Clear/Sunny St	howers 10							11		1				2	20	4	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seibert Rd.	12:30 PM 11/7/2002 Clear/Sunny Sł	howers 5							3							10		5

Advanced Chemical Data

										E-										
							Water coli(coloni				Temp			Total						
						Past	Quality		DO(%S	at es	/100mg		BOD	Chang	e		Phospha	t Nitrate	Turbic	dity(
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Weather	Score	DO(ppm)	uration	) /L)		pН	5(mg/L)	(c)	Te	mp (c)	e(mg/L)	NO3(mg/	(I) NTU)	
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	12:00 PM	1/26/200	1 Overcast	Overcast	66.26	(	)	66	384	6	3	5				0 0.	.1	18
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	3/2/200	1 Clear/Sunny	Clear/Sunny	64.46	8	3	70	200	6	8	4			0.	4 1.	.5	40
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	3/19/200	1 Overcast	Clear/Sunny	56.4	10	)	75	282	5	8	5				90.	.3	13
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	12:00 PM	4/20/200	1 Clear/Sunny	Clear/Sunny	62.03	18	3 Greater	' Th	78	6	3	8	-1	22		J	4	33
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:30 PM	6/4/200	1 Overcast	Showers	52.65	-	7	80	1000		9		0	20	)	5 17.	.5	
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	6/21/200	1 Overcast	Stormy	65.79		7	80	1200	8	4	3			0.	2 0.	.5	65
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00pm	8/14/200	1 Clear/Sunny	Clear/Sunny	66.44		3	92	2100	7	7	3					0	58
280 Highland-Pigeon 05140202	McFadden Creek	bridge on Gun Club Rd.	2:30 PM	8/14/200	1 Clear/Sunny	Clear/Sunny	63.85	8	3	92	1200		8	6					0	58
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	11:30 AM	11/12/200	1 Clear/Sunny	Clear/Sunny	59.98	ę	)	75	3700	7	9	3			0.	5 1	1	20
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	11/12/200	1 Clear/Sunny	Clear/Sunny	70.62	14	<b>I</b> 1	15	500	7	9	2			0.	1 0.	.9	71

#### Advanced Chemical Data

Advanced Chemical Data														
						E	-							
				Water		C	oli(coloni		Temp		Total 1	Vitrate		
			Past	Quality		DO(%Sat es	s/100mg	BOD	Change		Phosphat N	VO3(mg/l Tui	bidity(	
Site ID WaterShed Name River Name Description	Time	Date Weather	Weather	Score	DO(ppm)	uration) /L	.) pH	5(mg/L)	(c)	Temp (c)	e(mg/L) )	NT	U)	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seib	bert Rd. 11:00 AM	2/6/2002 Overcast	Clear/Sunny	71.55	4	31	0	7.9	2		0.4	2.5	10	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m	ile N of SR62 on SR69 Bypass 1:00 PM	3/6/2002 Clear/Sunny	Showers	81.48	13	120	31	7.9	0	1 12	0.3	2.5	18	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seib	pert Rd. 2:15 PM	3/6/2002 Clear/Sunny	Clear/Sunny	69.89	12	92	500	8.2	2		0.4	4	15	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m	ile N of SR62 on SR69 Bypass 9:00 AM	5/22/2002 Clear/Sunny	Clear/Sunny	78.43	11	100	198	7.6	2		0.2	0.9 Les	s Than 15	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seib	pert Rd. 1:00 PM	4/17/2002 Clear/Sunny	Clear/Sunny	62.17	10	110	594	8.2	2		1	15	15	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m	ile N of SR62 on SR69 Bypass 9:00 AM	4/17/2002 Clear/Sunny	Clear/Sunny	73.36	10	95	264	7.6	1		0.6	0.85	20	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seib	pert Rd. 12:45 PM	5/22/2002 Clear/Sunny	Clear/Sunny	63.71	9	90	330	8	3		1	9 Les	s Than 15	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seib	pert Rd. 3:00 PM	6/18/2002 Clear/Sunny	Clear/Sunny	60.97	9	105	957	7.9	2		2	13	18	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m		6/18/2002 Clear/Sunny		76.42	9	98	66	7.9	1		0.5	3 Les	ss Than 15	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m	ile N of SR62 on SR69 Bypass 10:00 AM	9/26/2002 Clear/Sunny	Clear/Sunny	76.19	9	95	67	7.8	1		0.8	0.1 Les	s Than 15	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m		10/17/2002 Clear/Sunny		79.17	10	88		6.97	1		0.3	0	19.33	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m	ile N of SR62 on SR69 Bypass 3:00 PM	11/7/2002 Clear/Sunny	Showers	75.58	11	100	33	7.5	2		0.9	1.5 Les	ss Than 15	
279 Highland-Pigeon 05140202 McFadden Creek bridge on Seib	pert Rd. 12:30 PM	11/7/2002 Clear/Sunny	Showers	65.79	9	80	133	7.9	2		2	2	25	
65 Highland-Pigeon 05140202 McFadden Creek Approx. 1/2 m	ile N of SR62 on SR69 Bypass 1:00 PM	12/20/2002 Clear/Sunny	Stormy	68.76	6	80	67	7.2	1		0.7	13	18	

#### Advanced Chemical Data

									E-							
						Water			coli(coloni		Temp		Total	Nitrate		
					Past	Quality		DO(%Sat	es/100mg	BOD	Change		Phosphat	NO3(mg/l	Turbidity(	
Site ID WaterShed Name River Na	ame Description	Time	Date	Weather	Weather	Score	DO(ppm)	uration)	/L) pH	5(mg/L)	(c)	Temp (c)	e(mg/L)	)	NTU)	
65 Highland-Pigeon 05140202 McFadd	en Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	2/20/2003	Clear/Sunny	Showers	65.56	10	80	) 233	7	2		0.5	10.5	i 16	
279 Highland-Pigeon 05140202 McFadd	en Creek bridge on Seibert Rd.	11:00 AM	2/27/2003	Showers	Clear/Sunny	73.01	11	83	3 67	7.2	3		0.4	4.5	5 Less Than 1	5
65 Highland-Pigeon 05140202 McFadd	en Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	10:00 AM	3/20/2003	Clear/Sunny	Stormy	71.94	11	95	5 130	7.5	1		0.6	F	i 17	
279 Highland-Pigeon 05140202 McFadd	en Creek bridge on Seibert Rd.	11:00 AM	3/25/2003	Clear/Sunny	Clear/Sunny	63.07	14	130	) 134	8.3	2		0.8	17.5	<b>2</b> 0	
65 Highland-Pigeon 05140202 McFadd	en Creek Approx. 1/2 mile N of SR62 on SR69 Bypass	10:00 AM	4/17/2003	Showers	Overcast	65.12	6	55	5 34	7.8	1		0.4	5.5	i 36	
279 Highland-Pigeon 05140202 McFadd	en Creek bridge on Seibert Rd.	2:30 PM	4/17/2003	Overcast	Showers	62.71	9	79	9 200	8	2		0.85	13.5	5 Less Than 1	5

#### Habitat Data

							Past								
Site ID	WaterShed Name	River Name	Description	Time	Date	Weather	Weather	1	11	111	IV	V	VI	CQH	ιEl
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	12:00 PM	1/26/2001	Overcast	Overcast		0	2	12	4	6	4	28
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	3/2/2001	Clear/Sunny	Clear/Sunny		0	2	12	4	6	4	28
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	3/19/2001	Overcast	Clear/Sunny		0	2	12	4	6	4	28
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	12:00 PM	4/20/2001	Clear/Sunny	Clear/Sunny		0	4	12	4	1	4	25
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM	6/4/2001	Overcast	Showers		0	2	12	5	6	4	29
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	6/21/2001	Overcast	Stormy		0	4	15	5	6	0	30
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM	8/14/2001	Clear/Sunny	Clear/Sunny		0	2	12	3	1	0	18
2	280 Highland-Pigeon 05140202	McFadden Creek	bridge on Gun Club Rd.	2:30 PM	8/14/2001	Clear/Sunny	Clear/Sunny		3	4	0	10	1	4	22
2	279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	11:30 AM	11/12/2001	Clear/Sunny	Clear/Sunny		3	12	12	13	6	4	50
	65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	11/12/2001	Clear/Sunny	Clear/Sunny		0	2	0	1	2	0	5

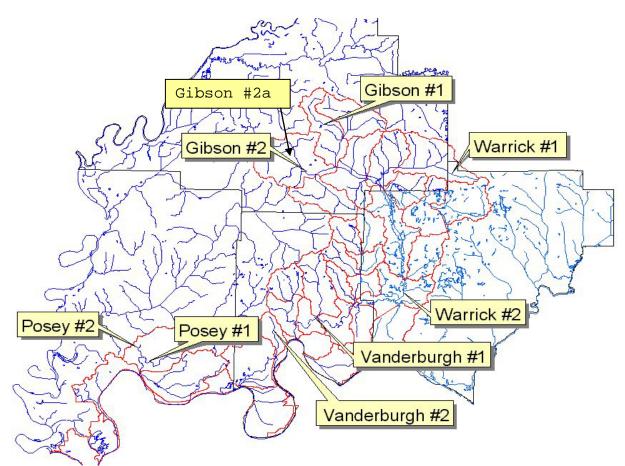
#### Habitat Data

Tabilat Bala													
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather I	11	111	IV	V	VI	CQF	HEI
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	11:00 AM	2/6/2002	Overcast	Clear/Sunny	3	12	12	11	6	4	48
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM	3/6/2002	Clear/Sunny	Showers	0	2	3	3	8	8	24
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	2:15 PM	3/6/2002	Clear/Sunny	Clear/Sunny	7	12	12	10	6	8	55
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	1:00 PM	4/17/2002	Clear/Sunny	Clear/Sunny	3	14	12	11	9	4	53
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	4/17/2002	Clear/Sunny	Clear/Sunny	3	6	0	3	9	8	29
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	5/22/2002	Clear/Sunny	Clear/Sunny	5	8	0	3	6	8	30
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	12:45 PM	5/22/2002	Clear/Sunny	Clear/Sunny	3	12	12	11	6	8	52
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	3:00 PM	6/18/2002	Clear/Sunny	Clear/Sunny	3	14	12	11	6	0	46
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	6/18/2002	Clear/Sunny	Clear/Sunny	3	4	0	3	9	6	25
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	10:00 AM	9/26/2002	Clear/Sunny	Clear/Sunny	3	4	0	3	1	0	11
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	10/17/2002	Clear/Sunny	Overcast	3	6	0	6	2	4	21
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	3:00 PM	11/7/2002	Clear/Sunny	Showers	3	4	0	6	2	0	15
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	12:30 PM	11/7/2002	Clear/Sunny	Showers	3	8	12	10	2	0	35

Stream Flow Data											
									Ave		
							Ave	Ave	Velocity(ft/		Discharge
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Depth(ft)	Width(ft)	sec)	n value	(cfs)
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM	8/14/2001	Clear/Sunny	Clear/Sunny	0.23	2.5	0.33	0.9	0.17
280 Highland-Pigeon 05140202	McFadden Creek	bridge on Gun Club Rd.	2:30 PM	8/14/2001	Clear/Sunny	Clear/Sunny	0.35	2.5	0.25	0.9	0.2
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	11:30 AM	11/12/2001	Clear/Sunny	Clear/Sunny	0.34	4	0.12	0.9	0.15
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AN	11/12/2001	Clear/Sunny	Clear/Sunny	0.61	4	0.33	0.9	0.72

Stream Flow Data											
Site ID WaterShed Name	River Name	Description	Time	Date	Weather	Past Weather	Ave Depth /	Ave Width(Av	e Veloci n value	) D	Discharge(cfs)
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	11:00 AM	2/6/2002	Overcast	Clear/Sunny	0.74	8	0.39	0.9	2.08
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	1:00 PM	3/6/2002	Clear/Sunny	Showers	0.53	5.53	0.5	0.9	1.32
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	2:15 PM	3/6/2002	Clear/Sunny	Clear/Sunny	0.6	8	0.25	0.9	1.08
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	5/22/2002	Clear/Sunny	Clear/Sunny	0.41	4.5	0.93	0.9	1.54
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	1:00 PM	4/17/2002	Clear/Sunny	Clear/Sunny	0.29	7	1.73	0.9	3.16
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	4/17/2002	Clear/Sunny	Clear/Sunny	0.34	6.5	1.46	0.9	2.9
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	12:45 PM	5/22/2002	Clear/Sunny	Clear/Sunny	0.41	5.5	1.07	0.9	2.17
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	3:00 PM	6/18/2002	Clear/Sunny	Clear/Sunny	0.36	6.5	0.42	0.9	0.88
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	9:00 AM	6/18/2002	Clear/Sunny	Clear/Sunny	0.42	5.5	1	0.9	2.08
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	10:00 AM	9/26/2002	Clear/Sunny	Clear/Sunny	0.14	3	0.22	0.9	0.08
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	8:30 AM	10/17/2002	Clear/Sunny	Overcast	0.24	3.35	0.1	0.9	0.07
65 Highland-Pigeon 05140202	McFadden Creek	Approx. 1/2 mile N of SR62 on SR69 Bypass	3:00 PM	11/7/2002	Clear/Sunny	Showers	0.38	4	0.2	0.9	0.27
279 Highland-Pigeon 05140202	McFadden Creek	bridge on Seibert Rd.	12:30 PM	11/7/2002	Clear/Sunny	Showers	0.37	5.5	0.67	0.9	1.23

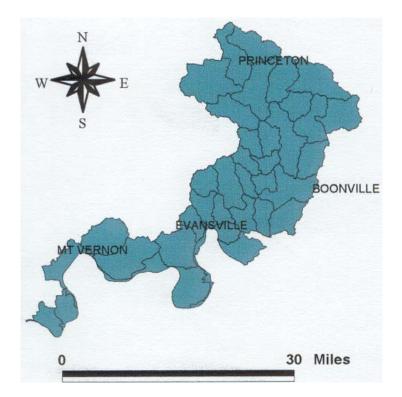
Sample Site Locations: Pigeon-Highland Watershed Steering Committee Data, November 2001 to April 2003.



Gibson #1 = Pigeon Creek-Clear Fork, Hoosier Riverwatch Site #165 Gibson #2 = Pigeon Creek-West Fork, HW Site #281 Gibson #2a = Pigeon Creek-West Fork, HW Site #402 Warrick #1 = Smith Fork, HW Site #278 Warrick #2 = Pigeon Creek-Heim Rd., HW Site #66 Vanderburgh #1 = Pigeon Creek-Heidelbach, HW Site #75 Vanderburgh #2 = Carpentier Creek, HW Site #221 Posey #1 = trib. of McFadden Cr. At SR69 bypass, HW Site #65 Posey #2 = trib. of McFadden Cr. At Seibert Rd, HW Site #279

For

## **Highland-Pigeon Watershed**



### <u>Appendix E</u>: Data from SOLE and IDEM Assessment Branch for Bayou Creek

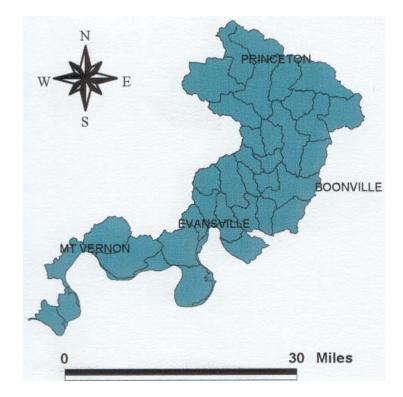
Advanced	d Chemical	Data													
Stream Fl	low Data									Ave					
Site ID	Watershe d Name	River Name	Descripti on	Time	Date	Weather	Past Weather	Ave Depth(ft)	Ave Width(ft)	Velocity (ft/sec)	n value	Discharg e(cfs)			
338 <mark>Biologica</mark>	Highland- Pigeon 3 05140202	Bayou	100 feet south of intersectio n of Vanderbur gh-Posey Co. Line Rd and Broadway		6/18/2002		Clear/Sun ny	2.08	i 1.	5 0	.5 0.1	9 1.4	Ļ		
	Watershe		Descripti		_		Past	Pollution Tolleranc	-	Mayfly	Caddis	Dobsonfl		Water	Right handed
Site ID	d Name	Name	on 100 feet	Time	Date	Weather	Weather	e Score	Larvae	Larvae	Fly Larve	y Larvae	Beetle	Penny	Snail
338	Highland- Pigeon 3 05140202	Bayou Creek Wilson	south of intersectio n of Vanderbur gh-Posey Co. Line Rd and Broadway 100 feet south of intersectio n of Vanderbur gh-Posey	1:15pm	########	Clear/Sun ny	Clear/Sun ny	6							
220	Highland- Pigeon 3 05140202	Branch of Bayou	Co. Line Rd and Broadway	1:00pm	6/18/2002	Clear/Sun		14							
330	Damsel			1.00pm			ny				Left			Rat-	
Site ID 338	Fly Nymph	Dragonfly Nymph	Sowbug			Clams/Mu ssels	Midge Larvae	Black Fly Larvae	Planaria	Leech	Handed Snail	Aquatic Worms	Blood Midge	Tailed Maggot	
338		1									1	2	ŀ		
	Chemical D	ata													
Site ID	d Name	Name	on	Time	Date	Weather	Weather	Score	Saturatio	o (mg/l)	(ppm)	рН	Phospha	t Change(c	(NTU)
338	Highland- Pigeon 3 05140202	Bayou	100 feet south of intersectio n of Vanderbur gh-Posey Co. Line Rd and Broadway 100 feet south of		########	Clear/Sun ny	Clear/Sun ny	2.86	-<50	'6-8		0 7	,	4	
338	Highland- Pigeon 3 05140202	Bayou	intersectio n of Vanderbur gh-Posey Co. Line Rd and Broadway		6/18/2002	Clear/Sun ny	Clear/Sun ny	3	90-71	'6-8		0 6 or 8		4 '0-2	0-40
	Fecal Coliform( Colonies/ 100ml) 3 1-300 3 1-300														
<mark>Habitat Da</mark> Site ID	ata Watershe d Name		Descripti on	Time	Date	Weather	Past Weather	I	II	ш	IV	v	VI	CQHEI	
	Highland- Pigeon 3 05140202	Wilson Branch of Bayou	100 feet south of intersectio n of Vanderbur gh-Posey Co. Line Rd and Broadway		#######################################	Clear/Sun ny	Clear/Sun ny	5		2 1	2 1:	2 1		4 36	-
338	Highland- Pigeon 3 05140202	Bayou	100 feet south of intersectio n of Vanderbur gh-Posey Co. Line Rd and Broadway		6/18/2002	Clear/Sun ny	Clear/Sun ny	10	· · · ·	2 1	5 10	0 1		4 42	

Project ID	Stream Name	Description	14-Digit HUC	County	LatDeg	LatMin	LatSec	LongDeg	LongMin	LongSec
2000 USGS	E Bayou Cr	Burdette Park near Evansville, IN	5140202070020	Vanderburg	3	7 56	6 40	) -87	7 38	3 21
7/18/200 7/25/200 8/1/200	<ul> <li>LSite</li> <li>0 OHP070-0003</li> <li>0 OHP070-0003</li> <li>0 OHP070-0003</li> <li>0 OHP070-0003</li> <li>0 OHP070-0003</li> <li>0 OHP070-0003</li> </ul>	Sample Number AA08063 AA08091 AA08119 AA08188 AA08216	E_ Coli (CFU/100mL) 84 (QJ) 170 47 (QJ) 43 (QJ) 73							

Project Name	Stream	Description	Site Name	County	14-Digit HUC		
2000 USGS E coli	Bayou Cr	Burdette Park near Evansville, IN	OHP070-0003	Vanderburg	5140202070020	)	
LatDeg	LatMin	LatSec	LongDeg	LongMin	LongSec	Northing	Easting
37	56	40	-87		38 21	4199843.665	443840.2793
Sample Date	Sample Time	Sample Number	Dissolved O2 (mg/L)	Water Temp - C	SaturationPct	рH	Specific Conductivity (umhos/cm)
7/11/2000		AA08063	0.37		.82	7.01	412
7/18/2000		AA08091	0.6		.24	6.99	
7/25/2000	10:10	AA08119	1.23	23	.18	7.16	489
8/1/2000	9:50	AA08188	1.94	24	.45	7.06	479
8/8/2000	9:40	AA08216	1.72	26	.73	7	449
Turbidity (ntu)	Comments		I				
	Barometric Pres						
	Barometric Pres						
	Barometric Pres						
	Barometric Pres						

# For

# **Highland-Pigeon Watershed**



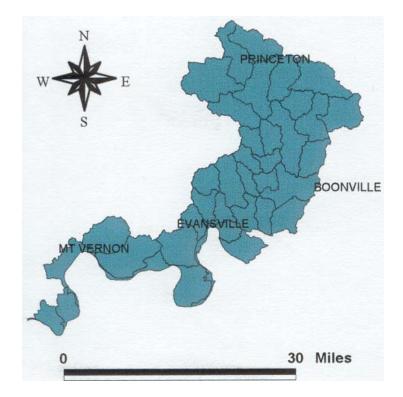
### Appendix F: Goals and Timeline

### Appendix F: Prioritized Goals and Timeline

What	Where Wi	ll be changed How	New level By	(timeline)
Sedimentation from erosion on agricultural land.	Subwatersheds 16,17,18,23,24,2526; reaches MF4,MF8,MF9,MF10.	Reduced.	By 50% or to "T" levels- whichever is greater.	5 to 10 years.
Runoff from livestock operations.	Subwatershed 20; reaches MF4,MF8,MF9.	Eliminated.	Levels of E. coli bacteria below 235 col/100 ml, nutrient levels at or below background concentrations.	3 to 5 years.
Educational opportunities.	Entire watershed.	Increased.	Ongoing, regular programs: annual field days, monthly school programs, quarterly news releases, etc.	Ongoing and continuous.
Discharges of raw or inadequately treated sewage.	Entire watershed.	Eliminated.	Levels of E. coli bacteria below 235 col/100 ml.	5 to 25 years.
High phosphorous levels.	Subwatersheds 16,17,18,24,25.	Reduced.	By 50%.	5 to 10 years.
Illegal solid waste disposal.	Subwatersheds 7,15,16;reach MF2	Cleaned up.	Existing sites will be cleaned up- signs posted.	5 to 10 years.
Streams impaired for ALUS/aesthetics.	Subwatersheds 23,24,25,26; reaches MF8,MF9,MF10.	Riparian zones improved with buffers.	Targeted streams afford some ALUS- appear to be creeks rather than "ditches".	5 to 15 years.
Only 6% of watershed is wetlands.	Subwatersheds 16,25,33.	Increased.	100 acres of restored or created wetlands enrolled in WRP.	5 to 15 years.
Urban erosion control.	Developing areas.	Increased.	Rules & ordinances are enforced with more vigilance.	Ongoing.

For

## **Highland-Pigeon Watershed**



Appendix G : Past Conservation Efforts in the Watershed

