2006 Study Plan for the Scioto Brush Creek Watershed (Adams and Scioto Counties, OH)

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Monitoring Rationale

Introduction

During the 2006 field season (June thru October) chemical, physical, and biological sampling will be conducted in the Scioto Brush Creek basin to assess and characterize all of the various potential sources of water quality impairment in the watershed. As a Total Maximum Daily Load (TMDL) basin, this survey will incorporate a drainage area stratified systematic study design.

No significant point source discharges are known to exist in the basin. Thus, the sampling effort is structured to characterize non point source impacts including those from unsewered communities and from agricultural or industrial activities. Streams, locations and types of sampling scheduled for the study area are listed in Table 1. Lab effort is detailed in Table 2.

Sampling Objectives:

Evaluate all streams in the basin which drain at least 4 mi² to determine the status of the aquatic community.

Characterize the amount of aquatic resource degradation attributable to various land uses including agricultural or forestry practices and from rural community development.

Investigate the potential for use impairment induced by industrial activities.

Determine any potential recreational impacts from unsewered communities including McDermott, Rarden, Otway, Youngs and Owensville.

Chemical/Physical Water and Sediment Quality

Chemical sampling locations within the study area are listed in Table 1. Conventional chemical/physical water quality samples will be collected six times at locations where drainage areas are $\geq 8 \text{ mi}^2$. Four samples will be collected at locations where drainage areas are $\approx 4 \text{ mi}^2$. Half of the samples from these sites will be submitted for mercury concentration analysis.

In support of a statewide study to assess nutrient assimilation, dissolved P, water column chlorophyll, and periphyton samples will be collected at seven sites. The sampling protocol for determination of chlorophyll a concentrations requires that these samples be collected between late July and early September following a minimum of two weeks of stable, low-flow conditions. For a given sampling event (either water column chlorophyll or periphyton), one composite sample per site will be split among three filters for later analysis. The dissolved P and water column chlorophyll samples should be collected during the same sampling event.

Nutrient sampling will occur at: Scioto Brush Creek - RM's 33.55 & 5.82, Rarden Creek - RM 3.86, South Fork Scioto Brush Creek - RM 0.65, Mill Creek - RM 0.79, Rocky Fork - RM 3.52 and Bear Creek RM 3.45.

Bacteriological water samples will be collected six times at locations where drainage areas are ≈

 32 mi^2 or 64 mi^2 (4 locations), at reference sites (2 locations), and at sentinel sites (3 locations, one of these is also a reference site). Three samples will be collected at locations where drainage areas are $\leq 16 \text{ mi}^2$ and at Scioto Brush Creek - RM's 12.15, 3.35 & 0.27. Beyond the drainage area stratified and mainstem selected sites, six additional sites were identified to determine whether there is an excessive presence of water borne pathogens in proximity to specific communities. No aquatic life assessment is requested at these locations: Dry Run - RM 0.43, Jessie Run - RM's 0.25 & 0.65, Bloody Run - RM's 0.10 & 0.50 and Reeds Run - RM 0.10.

Organic water samples will be collected once, and sediment metal and organic samples will be collected once at locations where drainage areas are $\approx 32 \text{ mi}^2$ or 64 mi² (4 locations), at reference sites (2 locations), at sentinel sites (3 locations, one of these is also a reference site)., at Dunlap Creek RM - 0.65, and at Jaybird Branch - RM 0.99. Additionally, sediment sampling to assess nutrients (ammonia & total phosphorus), total organic carbon and particle size should occur at all nutrient assessment locations (4 additional locations where metal and organic concentration analysis is not requested).

Datasonde© sampling will be completed by the Modeling Unit. One deployment run is anticipated at all sites where drainage areas are $\geq 32 \text{ mi}^2$ (10 locations). Datasonde© sampling is also requested at the smaller drainage area reference or nutrient assessment locations (5 additional sites).

The Modeling Unit will calibrate discharge correlated to stream height at the three sentinel sites. These stations will be chemically sampled six times during which stream height will be recorded. Subsequently, loading calculations will be possible for these locations.

Macroinvertebrate and Fish Assemblages

Quantitative macroinvertebrate sampling methods and two fish sampling passes will be conducted at all sites where drainage areas are $\geq 32 \text{ mi}^2$ (9 locations, excludes the mainstem pathogen site Scioto Brush Creek - RM 3.35). Qualitative macroinvertebrate sampling methods and one fish sampling pass will be conducted at all sites where drainage areas are $\approx 4 \text{ mi}^2$, 8 mi^2 and 16 mi^2 . (45 locations excluding the pathogen sites: Dry Run - RM 0.43, Jessie Run - RM's 0.25 & 0.65, Bloody Run - RM's 0.10 & 0.50 and Reeds Run - RM 0.10.). Habitat assessment will occur at all fish sampling locations.

Collection of fish tissue samples is anticipated at five locations: Scioto Brush Creek - RM's 26.6, 17.1, 13.4, 9.5 & 0.27.

Quality Assurance / Sampling Methods

Ohio EPA Manuals

All biological, chemical, EPA laboratory, data processing, and data analysis methods and procedures adhere to those specified in the Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices (Ohio Environmental Protection Agency 2006), Biological Criteria for the Protection of Aquatic Life, Volumes II - III (Ohio Environmental Protection Agency 1987, 1989a, 1989b), The Qualitative Habitat Evaluation Index (QHEI); Rationale, Methods, and Application (Rankin 1989) for habitat assessment, and Ohio EPA Sediment Sampling Guide and Methodologies (Ohio EPA 2001).

Quality Control Samples

Ten percent of the sediment, water, and bacteria samples will be submitted to the lab as field duplicates. One Datasonde© recorder site will have two instruments placed in the river as field duplicates.

Surface Water

Surface water grab samples will be collected from the upper 12 inches of river water and sampled directly into appropriate containers. Collected water will be preserved using appropriate methods, as outlined in Parts II and III of the Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices (Ohio EPA 2006) and delivered to the Ohio EPA lab for analysis. Datasonde[©] continuous recorders will be placed at select locations to evaluate diurnal measurements of dissolve oxygen, pH, temperature, and conductivity.

Bacteria

Water samples will be collected directly from the river into sterilized polyethylene containers, cooled to 4°C, and transported to the Ohio EPA lab in Columbus for analysis within 6 hours of sample collection. All samples will be analyzed for fecal coliform and *E. coli* bacteria using U.S.EPA approved methods (STORET Parameter Codes 31611 and 31633). Samples may be processed in the field using standard incubation methods before delivery to the Ohio EPA lab.

Sediment

Fine grained multi-incremental sediment samples will be collected in the upper 4 inches of bottom material using either decontaminated stainless steel scoops or Ekman dredges. Collected sediment will be placed into glass jars with teflon lined lids, placed on ice (to maintain 4°C) and delivered to the Ohio EPA lab. Sampling and decontamination protocols will follow those listed in the Ohio EPA Sediment Sampling Guide and Methodologies, November, 2001.

Biological Community Assessment

Macroinvertebrates will be collected from artificial substrates and from the natural habitats. The artificial substrate collection provides quantitative data and consists of a composite sample of 5 modified Hester-Dendy (HD) multiple-plate samplers colonized for six weeks. At the time of the artificial substrate collection, a qualitative multihabitat composite sample is also collected. This sampling effort consists of an inventory of all observed macroinvertebrate taxa from the natural habitats at each site with no attempt to quantify populations other than notations on the

predominance of specific taxa or taxa groups within major macrohabitat types (e.g., riffle, run, pool, margin). Fish will be sampled once or twice at each sampling location with pulsed DC current. Detailed biological sampling protocols are documented in the Ohio EPA manual Biological Criteria for the Protection of Aquatic Life, Volume III (1989).

Stream Habitat Evaluation

Physical habitat is evaluated using the Qualitative Habitat Evaluation Index (QHEI) developed by the Ohio EPA for streams and rivers in Ohio (Rankin 1989). Various attributes of the available habitat are scored based on their overall importance to the establishment of viable, diverse aquatic faunas. Evaluations of type and quality of substrate, amount of instream cover, channel morphology, extent of riparian canopy, pool and riffle development and quality, and stream gradient are among the metrics used to evaluate the characteristics of a stream segment, not just the characteristics of a single sampling site. As such, individual sites may have much poorer physical habitat due to a localized disturbance yet still support aquatic communities closely resembling those sampled at adjacent sites with better habitat, provided water quality conditions are similar. QHEI scores from hundreds of segments around the state have indicated that values higher than 60 were generally conducive to the establishment of warmwater faunas while those which scored in excess of 75-80 often typify habitat conditions which have the ability to support exceptional faunas.

Use Attainment

Attainment/non-attainment of aquatic life uses will be determined by using biological criteria codified in Ohio Administrative Code (OAC) 3745-1-07, Table 7-17. Numerical biological criteria are based on multimetric biological indices including the Index of Biotic Integrity (IBI) and modified Index of Well-Being (MIwb), indices measuring the response of the fish community, and the Invertebrate Community Index (ICI), which indicates the response of the macroinvertebrate community.

Performance expectations for the basic aquatic life uses (Warmwater Habitat [WWH], Exceptional Warmwater Habitat [EWH], and Modified Warmwater Habitat [MWH] were developed using the regional reference site approach (Hughes et al. 1986; Omernik 1988). This fits the practical definition of biological integrity as the biological performance of the natural habitats within a region (Karr and Dudley 1981). Attainment of an aquatic life use is FULL if all three indices (or those available) meet the applicable criteria, PARTIAL if at least one of the indices did not attain and performance did not fall below the fair category, and NON if all indices either fail to attain or any index indicates poor or very poor performance. The results will be compared to WWH biocriteria for the Western Allegheny Plateau ecoregion.

Recreational use attainment will be determined using fecal coliform bacteria and *E. coli* bacteria. Both types of organisms are indicator organisms for the potential presence of pathogens in surface water resulting from the presence of untreated human or animal wastes, and they are the basis for recreational use water quality criteria in Rule 3745-1-07 of the Ohio Administrative Code (OAC).

Contacts

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Table 1. List of sampling locations in the 2006 Scioto Brush Creek study area. Sample type acronyms and number of sites follow:

DI/	Carranta T	T4' / NI-4	n /r · 2	N /L . 41	T -4 T
RM	Sample Type	Location / Notes	Mi ²	Map#	LatLong.
	Brush Creek				
	c,b,m,f	Trail from Hackelshin Rd.		710	39.0004-83.3023
	C,b,m,f	Bettys Creek Rd.		732	38.9695-83.3471
	C,N,s,D,b,m,f	St. Rt.32 / Nutrient site		732	38.9694-83.3472
27.87	C,O,S,D,B,M,F	St. Rt. 73, Dst. Coffee Hollow / Dst.	35.0	732	38.9468-83.3026
		Hanson Aggretates, Tissue site			
	C,O,S,D,B,M,F	Rarden-Hazelbaker Rd.		733	38.9173-83.2457
	C,O,S,D,B,M,F	St. Rt. 348 / Sentinal & Tissue site	-	753	38.8620-83.1898
	C,D,b,M,F	Diehlman Rd./ Tissue site		752	38.8363-83.1381
5.82	C,N,O,S,D,B,M,F	Tatum Coe Rd. / Sentinal, Nutrient &Tissue site	260.0	754	38.8412-83.0958
3.35	C,D,b	Colley Rd. / Pathogen site	264.0	754	38.8373-83.0649
0.27	C,D,b,M,F	St. Rt. 104 / Tissue site	273.0	754	38.8372-83.0211
Bettys	Creek				
1.4	c,b,m,f	Bettys Creek Rd., Opp. Conaway Rd.	4.3	3 710	39.0052-83.3360
Cedar	· Fork				
2.28	c,b,m,f	Davis Memorial Rd.	4.9	732	38.9404-83.3556
Plum	Run				
0.16	c,b,m,f	Quarry road, at Hanson Aggretates	4.0	732	38.9433-83.3607
Jaybii	rd Branch				
0.99	c,O,S,b,m,f	Beaver Pond Rd., Dst. GE Aviation	3.9	732	38.9324-83.3059
Rarde	en Creek				
3.86	C,N,s,D,b,m,f	Gravel lane, Ust. Adams/Scioto Co line / Nutrient site	8.0	732	38.9662-83.2701
0.27	C,b,m,f	St. Rt. 73	18.7	733	38.9234-83.2483
Straig	ht Fork Rarden Cre	eek			
0.31	c,b,m,f	Adj. Straight Fk. Rd., Dst. Elder Hollow Run	3.5	5 732	38.9731-83.273
Bull F	Run				
0.1	c,b,m,f	Rarden Creek Rd.	3.6	732	38.9697-83.2706
Dry F	ork Rarden Creek				
0.96	c,b,m,f	Gravel lane, Dst. Kizzie Run	4.2	732	38.9527-83.239
Dunla	ip Creek				
1.93	c,O,S,b,m,f	Adj. private road, ust. 1st. Adams	4.3	3 732	38.9043-83.2783
		Co. trib., Dst. GE Aviation			
0.65	C,b,m,f	Gravel road, Ust. confluence	8.2	2 732	38.9135-83.2581
		•			

Table 1. continued

RM	Sample Type	Location	Notes	
		Location	Notes	
	e Run	11. D 1 1 6 G D 770 /	1 5 500	20.0252.02.240
0.65	c,b	Ust. Rarden, Lane from St. Rt. 772 / Pathogen site	1.7 733	38.9252 -83.240
0.25	c,b	Dst. Rarden, Hill Rd./ Pathogen site	1.8 733	38.9208 -83.2430
Dry F	Run			
2.20	c,b,m,f	Dst. Salome Run, Ust. Staley Run / Access is uncertain	4.0 733	38.9257-83.1911
0.43	c,b	Ust Youngs, Ust Sugarcamp Run / Pathogen site	5.0 733	38.9027-83.2037
0.06	C,b,m,f	Near confluence	7.1 733	38.8980-83.2061
Blood	dy Run			
0.5	c,b	Ust. Otway, St. Rt. 348 / Pathogen site	0.9 753	38.8677 -83.1861
0.10	c,b	Dst. Otway, at RR bridge / Pathogen site	1.0 753	38.8652 -83.19
South	h Fork Scioto Brush	Creek		
12.4	C,O,S,D,B,M,F	Gravel lane to Hall Hollow from Blue Creek Rd.	36.4 752	38.7825-83.3220
5.88	C,O,S,D,B,M,F	Footbridge at Liston Run confluence	74.2 752	38.8393-83.2623
0.65	C,N,O,S,D,B,M,F	Adj. St. Rt. 348 / Reference , Sentinal & Nutrient site	112 752	38.8564-83.1975
Mill (Creek			
2.20	c,b,m,f	Ust. Middle Branch, Adj. St. Rt. 125	3.0 752	38.7722-83.3678
0.79	C,N,O,S,D,B,m,f	Gravel lane from St. Rt. 125 / Reference Site & Nutrient site	15.9 752	38.7748-83.347
Midd	le Branch Mill Cree	k		
1.95	c,b,m,f	Ust. Hickman Run	3.5 751	38.7596-83.3900
	C,b,m,f	Dst. Hickman Run	7.6 751	
	man Run			
0.03	c,b,m,f	Burr Rd., Near confluence	4.1 751	38.7603-83.3889
	n Creek	2 mi rea, rear commente	/31	20.7000
3.9	c,b,m,f	Adj. Churn Creek Rd., Ust. Slate Fork	3.7 767	38.7345-83.3043
3.0	C,b,m,f	Adj. Churn Creek Rd., Ust. Johnson Run	7.3 767	38.7439-83.3156
0.15	C,b,m,f	St. Rt. 125	18.1 752	38.7773-83.3346

Table 1. continued

RM	Sample Type	Location	Notes	
-	Creek	200mm	110000	
2.17	c,b,m,f	Gravel road, Dst. Glen Run	3.9 767	38.7493-83.3537
	erstein Run	214 / 01 1 0 4 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	213 737	
0.1	c,b,m,f	Blue Creek Rd.	3.2 752	38.7861-83.3201
Turk	ey Run			
	c,b,m,f	Newman Rd.	4.8 752	38.8204-83.3039
Turk	ey Creek			
6.00	c,b,m,f	Jones Rd.	4.2 752	38.8713-83.3638
4.24	C,b,m,f	Gravel lane ust. Dry Fork	7.4 752	38.8640-83.3366
0.40	C,b,m,f	St. Rt. 781	16.6 752	38.8376-83.2804
Dry F	Fork			
0.18	c,b,m,f	St. Rt. 781	4.2 752	38.8627-83.3263
Beach	h Fork			
1.85	c,b,m,f	Beech Fork Rd. (2nd crossing Ust. confluence)	4.1 752	38.8606-83.2679
Rock	y Fork			
8.78	c,b,m,f	St. Rt. 125	4.7 752	38.7560-83.2656
7.15	C,b,m,f	Footbridge, Dst. Big Run	8.4 752	38.7771-83.2573
3.52	C,N,s,D,b,m,f	Gravel lane from Rocky Fork Rd. / Nutrient site	18.0 753	38.8213-83.2383
Spruc	ce Run			
0.1	c,b,m,f	Rocky Fork Rd.	3.4 753	38.8071-83.247
Bear	Creek			
5.10	c,b,m,f	Big Spruce Rd., Dst. Left & Right Forks	4.2 753	38.7933-83.1919
3.45	C,N,s,D,b,m,f	Big Spruce Rd., near Alum Rock / Nutrient site	7.9 753	38.8100-83.1771
1.40	C,b,m,f	Adj. St. Rt. 73, Dst. Saw Pit Run	17.8 753	38.8251-83.1519
Saw I	Pit Run			
0.11	c,b,m,f	St. Rt. 73	4.9 753	38.8239-83.1501
McCı	ullough Creek			
1.33	C,b,m,f	Henly Deemer Rd.	7.4 753	38.8601-83.1494
0.61	C,b,m,f	Diehlman Rd.	18.6 753	38.8525-83.1266

Table 1. continued

RM	Sample Type	Location	Notes						
East Branch McCullough Creek									
3.80	c,b,m,f	Adj. St. Rt. 348, Dst. western trib.	4.4 734 38.8916-83.1047						
1.00	C,b,m,f	Ust. Conley Rd.	8.9 754 38.8500-83.1200						
Duck	Run								
1.52	c,b,m,f	Lane ust. Reeds Run	4.0 754 38.8509-83.0424						
Reeds	s Run								
0.1	c,b	Dst. Owensville, Duck Run Otway	0.9 754 38.8509-83.0395						
		Rd. / Pathogen site							

Sample type acronyms and number of sites:

- C Conventional water chemistry, 6 passes 29 sites (174 samples)
- c conventional water chemistry, 4 passes 32 sites (128 samples)
- N Nutrient assimilation (dissolved P, water column chlorophyll, & periphyton), 1 pass 7 sites
- **O** Organic water chemistry, 1 pass 10 sites (10 samples).
- S Sediment inorganic, organic and metal concentrations, 1 pass 10 sites (10 samples).
- **s** sediment inorganic (nutrient) concentrations, 1 pass 4 sites (4 samples).
- **B** Bacteriological analysis, 6 passes 7 sites (42 samples)
- **b** bacteriological analysis, 3 passes 54 sites (162 samples)
- **D** Datasonde (areas of algal activity may require units with stirrers) 1 pass 15 sites
- **M** macroinvertebrates, quantitative, 9 sites (9 samples).
- **m** macroinvertebrates, qualitative, 45 sites (45 samples).
- **F** fish, 2 pass, 9 sites (18 samples).
- **f** fish, 1 pass, 45 sites (45 samples).
- **Reference site:** Data from these locations was used to derive ecoregional biological expectations. Generally, a robust sampling effort is conducted at these sites to support future calibration needs (2 sites).
- **Nutrient site:** Ohio EPA is evaluating data from these locations toward developing nutrient concentration water quality criteria in correlation with aquatic life use performance (7 sites).
- **Sentinel site:** Location where modeling unit will calibrate flow with stage height. Water level will be measured on each chamistry sample pass (3 sites).
- **Pathogen site:** These locations were selected to determine whether bacteria concentrations in proximity to populated vicinities comply with recreational use criteria (7 sites).
- **Fish Tissue site:** Fish from these locations will be analyzed to provide relative human consumption risk information (5 sites).

Table 2. Ohio EPA chemistry lab sampling effort for the 2006 Scioto Brush Creek study area (See attached mock lab report forms).

Type of sample	# DES Parameters	# Sites	# Passes	Total #			
Water Chemistry							
	Conventional (Inorgan	ic Samples)					
Demand	4/6	1208					
oil & grease							
Nutrients	9	-					
dissolved P	1	7	1	7			
Bacteria	3	54 / 7	3 / 6	612			
Metals / Low Level	18	32 / 29	4/6	5436			
mercury	1	32 / 29	2/3	151			
	Organic Sca	<u>n</u>					
Volatiles (VOC)	1 (59 compounds)	10	1	10			
Cyanazine / Herbicides	2 (13 compounds)	10	1	20			
Semivolatiles (BNA)	1 (54 compounds)	10	1	10			
PCBs, Pesticides	4 (27 compounds) 10 1						
Carbamates	1 (10 compounds)	10	1	10			
Glyphosate	phosate 1 (1 compound) 10						
Sediment Chemistry							
	Conventional (Inorgan	ic Samples)					
Demand	3	14	1	42			
Nutrients	2	14	1	28			
Metals / Low Level	17	10	1	170			
mercury	1	10	1	10			
	Organic Sca	<u>n</u>					
Volatiles (VOC)	1 (64 compounds)	10	1	10			
Semivolatiles (BNA)	1 (86 compounds)	10	1	10			
PCBs, Pesticides	4 (31 compounds)	10	1	40			
Chlorophyll A							
Fluorometer test	1	7	1	7			

Table 3. Ohio EPA test methods for the 2006 Scioto Brush Creek study area.

Table 3. Onio EPA test methods		to Brush Creek study	area.
Parameters	Water column field test	Water column lab	Sediment lab test
Farameters	method	test method	method
Percent Solids	method		SM 2540G
BOD, 5-Day		USEPA 405.1, SM	
Conductivity	Hanna HI9811 n	neter USEPA 120.1	02108
Particle Size			OEPA 160.1
pH	Hanna HI9811 n	neter	0211110011
Solids, Dissolved (TDS)		USEPA 160.1	
Solids, Suspended (TSS)		USEPA 160.2	
Total Organic Carbon (TOC)		002111100.2	OEPA 335.2
Acidity, Total CaCO3		USEPA 305.1	02111000.2
Alkalinity, Total CaCO3		USEPA 310.1	
Chloride, Cl		USEPA 325.1	
COD		USEPA 410.4	
Nitrite		USEPA 354.1	
Ammonia		USEPA 350.1	SM 4500 -NH3 B&E
Nitrate+Nitrite		USEPA 353.1	
Phosphorus, Dissolved		USEPA 365.4	
Sulfate		USEPA 375.4	
TKN (Total Kjeldahl Nitrogen)		USEPA 351.2	
Phosphorus, Total		USEPA 365.4	USEPA 365.4
E.coli		USEPA 1103.1/640	0.1
Fecal coliform		SM 9222 D/ 610.1	
Total Coliform		SM 9222 B	
ICP 1 (Al,Ba,Ca,Cr,Cu,Fe, Mg, Mn, Na, Ni, K, Sr, Zn, Hardness)		USEPA 200.7	
ICP 3			USEPA 200.7
(Al,Ba,Ca,Cr,Cu,Fe,Mg,Mn,Na,Ni,K,Sr,Zn,Pb)			
GFAA/SIMA 1 (As,Cd,Pb,Se)		USEPA 200.9, SM	
GFAA/SIMA 2 (As, Cd, Se)			SEPA 200.9, SM 3113B
Mercury, Total		USEPA 245.1,7470.	A USEPA 7471A
Chlorophyll A		USEPA 445	
Dissolved Oxygen	YSI 55 meter		
Temperature	YSI 55 meter		
VOCs		USEPA 624	USEPA 8260B
Cyanazine (Bladex)		USEPA 525.2	
Herbicides (Atrazine, etc.)		USEPA 525.2	
BNA Organics (SVOCs)		USEPA 625	USEPA 8270C
Pesticides/ PCBs/ Chlordane		USEPA 608	USEPA 8081A, 8082
Carbamates (Sevin)		USEPA 531.1	
Glyphosate (Roundup)		USEPA 547	



Inorganic Sample Submission Form

DW Certification #4105

DES Use Only				
	Sample #			_
		MM	DD	ΥY
Dat	e Received			

	Sample Ir	nformation	//MSTDI#CT	LIONS ON BACK		Parameters	
	Sample II	HUIHIAUUI	(INSTRUCT	7			Creek TMDL
Client (Bill to)				1	rempiate ⊃(\/	/ater Colum	on
Special Project 1	dentity (project identity	requires prior approval)		-	•	vater Colaii	
Division (check on DAPC CDAGW CDERR CDHWM CDSW DSIWM COther Sample Type (che Ambient Complaint Compliance Litigation NPS Survey Raw Plant CDistribution CDDAGW CDDA	ock one)	OEPA District(check one) CO CDO NEDO NWDO SEDO SWDO Other Matrix(check one) Air Filter Drinking water Ground water Sediment Soil Surface water Waste water Reagent Water Other			Dil&Grease Particle Size, SeioH Collids_Diss(filt) Collids_Suspd(notiolids_Total Collids_Total Collids_Total	d only onfilt)	Nutrients
H	irab O	MM DD Y	Y НН ММ	O E O F O N	ecal Coliform ecal Streptoco	ccus	Misc. Turbidity
Frequency & Durati Composite Sample: Container I Qty. Type Air Filte Cubitair Cubitair Cubitair Cubitair Cubitair Cubitair Cubitair	nformation Pres. Pres.				CP 2, Water on CP 3, Sediment CP 4, SW846 S CP 5, SW846 S CP 6, Air Filters anadium CP Metals Or SI Metals - Low Le IMA 1, Water IMA 2, Sed on IMA 3, Air only rsenic, SW846 a	weel (As,Cd,Pb,Se), L (As,Cd,C,L), L (As,Cd,Pb,Se), L (As,Cd,Pb,Se), L (As,Cd,Pb,L), L (As,Cd,Pb,L), L (As,Cd,L), L (As,Cd	Eu, Fe, Mg, Mn, Na, Ni, K, Sr, Zn, Pb) Fe, Mg, Mn, Na, Ni, K, Sr, Zn, V, Cd, Co, Ti, Be, Hardness, r, Cu, Fe, Mg, Mn, Na, Ni, K, Pb, Sr, Zn, V, Co, Ti, Be) In) y if not using Metals packages above
Field Comments				O A O B O C O S	ntimony,L L eryllium, L L, Wate obalt, L L, Wate opper, L L, Wate ilver, L L hallium, L L orcura	tification to DES be ater, Sed, & Air only ar, Sed, & Air only ter only nly 2 or 3 s ar site need halysis Bioa	samples I Hg
Chlorine,mg/l Cond,umho	DO,mg/l P299	Flow,cfs Gage Ht, ft P61 P65	P400	P10 P9	rr.Cond, umho/cm 4		



Organic Sample Submission Form DW Certification #4105

DES Use Only		· · · · · · · · · · · · · · · · · · ·	
	Sample #		
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	Date Received ———	/ /	

									Date Receive	
	·	Sample I	nformatio	<u>n</u>	(IN	STRUCT	IONS ON BA	(CK)	Paramet	ters
Client (Bill to	0)						Template	Scioto Bru	sh Creel	k TMDL
		**********	·	-			1	Water Colu	umn 1	······································
Special Proje			quires prior	annroyal)			-			
	(proj	ert idelitity le	quires prior	approvai)						
Division(chec	k one)		OEPA Dist	rict(check one)		0	% Solids, Sed or	niy	
DAPC	8		CO	9)					
DDAGW DERR	\simeq		CDO	\sim	•			Volatiles		Taratan maka kastar
DHWM	\approx		NEDO	Ŏ 0 0			0-	VOC, 524.2		Drinking Water Analysis
DSW			NWDO SEDO					VOC, 624		Waste Water Analysis
DSIWM	Ŏ		SWDO	7				100,021		J Woste Water Artalysis
Other	_		Other	_			0	VOC, 8260		SW846 Analysis
										-
Sample Type			Matrix(che							
Ambient Complaint	8		Air Canister Drinking wa	~ O				Semivolatiles , — Cyanazine, 525.2		1 Duinting Materia Anglania
Compliance	ŏ		Ground water				. =	- Cyanazine, 525.2 Herbicides, 525.2		Drinking Water Analysis
Litigation	000		Oil Wipe					11010/01003, 32.3.4	6.	,
NPŠ	Ō		Sediment	ŏ				BNA, 625	•	}
Survey			Soil	0				- BN (PAHs) only,		> Waste Water Analysis
Raw	8 }		Surface wat	er 🧶			0	Acids (Phenols) (only, 625	J
Plant	\mathcal{L}	DW only	Waste water							
Distribution Other	· ·		Reagent wat Other	ter O				BNA, 8270 BN (PAHs) only,	0270	Dismac a li
Otrici			Other					BN (PARS) ORIY, Acids (Phenols) o		SW846 Analysis
Collection Da	ite							Acids (Frieriois) t	ліу, 6270	j
		MM	DD Y	γ нн	MM		0	- SAS-305		
Grab C	•						Ō	- SAS-310		
(or)		,	,	,						
Composite C) Begin_							Destinidan (DO		1
	End	/	/	/				Pesticides / PC - Pesticides, 505	BS / Herbicic	aes '
							. =	- PCBs, 508 (508A)	1	İ
Frequency & Du	uration of Co	omposite Sam	ple:				=	- Chlordane, 505	,	Drinking Water Analysis
Contair	ner Inform		Field QC (C	heck one)			. =	- Toxaphene, 505		}
Qty. Typ	pe i	Pres.	Field Duplica	te	(O		- EDB/DBCP, 504		
	Canister		Field/Equip//	Acid Blank	(Ŏ I	0	 Acid Herbicides, 5 	515)
		V/P	Trip Blank		(0000			,	•
		+Cl & Na,SO₃ +Cl & Na,SO₃	MSD		,	ا ر		- Pesticides, 608 - PCBs, 608		Waste Water Analysis
		V/P	1					- Chlordane, 608		Waste Water Analysis
		Va ₂ S ₂ O ₃	Collecte	d By			_	- Toxaphene, 608	:	
Aml		V/P							•	
		$la_2S_2O_3$						- Pesticides, 8081)	
		HCI / Na ₂ S ₂ O ₃						PCBs, 8082		
	, VOC , 504 N	la ₂ S ₂ O ₃	Customer	ID#				- Chlordane, 8081 - Toxaphene, 8081	ì	SW846 Analysis
		la₂S₂O₃ la₂S₂O₃	Referre	d By				- roxapnene, aus i - PCBs, Oil Wipe		
	Oil Wipe	.0/5/03		/				· reas, on make	,	
	ore Sampler		Station 1	ID #						
	L	******					_	Air Canister	_	
Sample Locati	ion		County:				Q	TO-14A		Air Analysis
							O	Canister Cleaning	, Only	
								Other		
							0	~ ~ ~ ~		•
							Ō			-
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							\sim			_
							O		···	-
Field Commen	ts					الـــــــــــــــــــــــــــــــــــــ			Lab Comme	nts
										
							•			
hlorine,mg/l Cond,	umho/cm DO	O _r mg/i	Flow,cfs	Gage Ht, ft	pH, su	0% C⊃+ I-	Temp _r oC	Corr.Cond, umho/cm	1	
50060 P94		- 1	P61	P65	P400	: 1	210	P94		
									1	
PA 4708 (1/03)				1		Driginal/DR		Green-DES	L	Vallous-Field Records



Organic Sample Submission Form DW Certification #4105

DES Use Only		-	<u>"</u>
-	Sample #		
	ММ	DD	ΥΥ
	Date Received		

								Date Receiv	
		Sample I	nformatio	<u>n</u>	(INSTRUCT	TIONS ON BA	(CK)	Parame	ters
Client (Bill	i to)	***************************************	····			Template	Scioto Bru	<u>sh Cree</u>	k TMDL
Special Pro	niect Ident	itv					Water Colu	umn 2	
		oject identity re	quires prior	approval)		1			
Division (ch	O.		CO	ict(check one))	0	% Solids, Sed or	nŧy	
DDAGW DERR DHWM	000		CDO NEDO NWDO	0000		0-	Volatiles VOC, 524.2		Drinking Water Analysis
DSW DSIWM			SEDO SWDO	8		0-	VOC, 624		} Waste Water Analysis
Other			Other			0-	VOC, 8260		} SW846 Analysis
Sample Tyl Ambient Complaint Compliance Litigation NPS Survey Raw Plant	pe(check on	e) > DW only	Matrix(chec Air Canister Drinking wat Ground wate Oil Wipe Sediment Soil Surface water Waste water	er OOO		0	Semivolatiles , — Cyanazine, 525.2 — Herbicides, 525.2 — BNA, 625 — BN (PAHs) only, — Acids (Phenols) o	2 ? 625	Drinking Water Analysis Waste Water Analysis
Distribution Other	O ,)	Reagent wat Other	er Ö		Ō	– BNA, 8270 – BN (PAHs) only, : – Acids (Phenols) c		SW846 Analysis
Collection I Grab (or)	_	MM	DD Y	Y НН	MM 		SAS-305 SAS-310		
Cont Oty. T A A A A A A A	End	d	ple: Field QC (C) Field Duplica: Field/Equip/A Trip Blank MSD Collecte	te cid Blank	0000	00000	Pesticides / PC Pesticides. 505 PCBs, 508 (508A) Chlordane, 505 Toxaphene, 505 EDB/DBCP, 504 Acid Herbicides, 5 Pesticides, 608 PCBs, 608 Chlordane, 608 Toxaphene, 608	· .	Drinking Water Analysis Waste Water Analysis
A V V V Ja	mber, P/P fial, VOC fial, VOC	Na ₂ S ₂ O ₃ HCl / Na ₂ S ₂ O ₃ Na ₂ S ₂ O ₃ Na ₂ S ₂ O ₃	Customer I Referre Station I	 d By		000	- Pesticides, 8081 - PCBs, 8082 - Chlordane, 8081 - Toxaphene, 8081 - PCBs, Oil Wipe	,	> SW846 Analysis
Sample Loca	ation		County:				Air Canister - TO-14A - Canister Cleaning,	, Only	Air Analysis
						• • • • • • • • • • • • • • • • • • •	Other Glyphosate Carbamate	547 s 531.1	· - - -
ield Commo	ents						***************************************	Lab Comme	ents
hlorine,mg/l Cor	nd,umho/cm	DO,mg/l	Flow,cfs	Gage Ht, ft	pH, su % Sat	Temp _r oC	Corr.Cond, umho/cm		
50060 P94	4	P299	P61	P65	1	P10	P94		
PA 4708 (1/03)					White-Original/D		Green-DES		Vallous-Field Records



Inorganic Sample Submission Form

DW Certification #4105

DES Use Only				
	Sample #		_	
	MM	DD	YY	
Date	Received			

	Sample Ir	nformation	//NSTDIACT	IONS ON BACK)		Parameters		
Client (Bill to)	Sample II	HOIMALION	(INSTRUCT		mplate S	Scioto Brusl	n Creek S	Sediment
				16	mprate C	<u>cioto bijasi</u>	1 OICCK C	<u>Jeannent</u>
Special Project 1	(project identity	requires prior approval)						
Division (check on DAPC DDAGW DERR DHWM DSW DSIWM Other Sample Type (check Ambient Complaint Compliance Litigation NPS Survey Raw Plant Distribution	ck one)	OEPA District (check one) CO CDO NEDO NWDO SEDO SWDO Other Matrix (check one) Air Filter Drinking water Ground water Sediment Soil Surface water Waste water Reagent Water Other			D-5 day D-Ultimate OD-20 day OD-5 day OD-5 day OD-5 day OD-1ltimate nductivity shpoint &Grease ticle Size, Sec ids_Diss(filt) ids_Suspd(no ids_Total Vola ids_Total Vola	d only onflit)	O Cyanic O Cyanic O Fluoric O Nitrite O Ammo O Phosp O Sulfate	y, Total CaCO ₃ nityTotal CaCO ₃ nonate de nium, Hexavalent (N/P_Filt) de_Free (WAD) de_Total de nia/Nitrate+nitrite filcs, Total w/man dist. horus, Dissolved (Filt)
Other Collection Date	rab O	MM DD Y	Y НН ММ	O E. (cal Coliform cal Streptocoo 10-MUG	ccus	(/	lity
Frequency & Durati Composite Sample: Container I Qty. Type Air Filte Cubitair Cubitair Cubitair Cubitair Cubitair Cubitair Cubitair	Encorn of Information Pres. In	, , ,		Me	P 1, Water or. P 2, Water or. P 3, Sedimen. P 4, SW846 o P 5, SW846 S P 6, Air Filters anium Anium Metals Or SI MA 1, Water or MA 2, Sed on. MA 3, Air only enic, SW846 or. d, SW846 or. enium, SW846 d, SW846 or.	EED only (Al, Ba, Ca, Cis only (Cr, Ni, Pb, Zn, Ni, Pb	u, Fe, Mg, Mn, Na, IFe, Mg, Mn, Na, Ni, r, Cu, Fe, Mg, Mn, N In) r if not using Mo	
Field Comments				O Anti O Ber	imony, LL yllium, E.L, Wate, palt, E.E., Wate per, E.E. er, E.E. Illium, E.E. E.E. cury	ater, Sed, &Air only er, Sed, &Air only er, only er only Bioa)
Chlorine,mg/l Cond,umho	n/cm DO,mg/l P299	Flow.cfs Gage Ht, ft P61 P65	P400	P10 P94	Cond, umho/cm			



Division of Environmen

Organic Sample Submission Form DW Certification #4105

	DES Use Only				
ntal Services		Sample #			
		мм	DD	YY	
	Dat	te Received			

		Date Rec	
Sample Information	(INSTRUCTI	ons on Back) Param	eters
Client (Bill to)		Template Scioto Brush Cree	ek TMDL Sediment
Cassist Dusing Triangle.			
Special Project Identity (project identity requires prior approva	I)		
Division(check one) DAPC OEPA District(check		O % Solids, Sed only	
DDAGW O CDO	0000	Volatiles	
DDAGW CDO DERR NEDO DHWM NWDO	Q	O VOC, 524.2	} Drinking Water Analysis
DHWM C NWDO DSW SEDO		O VOC, 624	Waste Water Analysis
DSIWM O SWDO	8) VOC, 824	J Waste Water Analysis
Other Other		VOC, 8260	} SW846 Analysis
Sample Type(check one) Matrix(check one)			
Ambient O Air Canister	0	Semivolatiles / Herbicid	es
Complaint O Drinking water Compliance O Ground water Litigation O Oil Wipe NPS O Sediment Survey Soil	0000-0000	O Cyanazine, 525.2	Drinking Water Analysis
Compliance Ground water Litigation Ground Wipe	8 1	O Herbicides, 525.2	j
NPS O Sediment		O BNA, 625	ገ :
Survey Soil	Ŏ I	O BN (PAHs) only, 625	> Waste Water Analysis
Raw Surface water Plant DW only Waste water	0	O Acids (Phenols) only, 625	j
Plant O DW only Waste water Distribution O Reagent water	2	BNA, 8270	ን
Other Other)	O BN (PAHs) only, 8270	> SW846 Analysis
		O Acids (Phenols) only, 8270	·
Collection Date MM DD YY HH	l MM	CAC 30F	
Grab O	/ 14114	O SAS-305 O SAS-310	
(or)		3.2.2.2	
Composite O Begin		marking a population	• • •
End /		Pesticides / PCBs / Herb Pesticides. 505	icides
3		O PCBs, 508 (508A)	İ
Frequency & Duration of Composite Sample:		Chlordane, 505	Drinking Water Analysis
Container Information Field QC (Check one	· _ *	O Toxaphene, 505	· (
Qty. Type Pres. Field Duplicate Air Canister Field/Equip/Acid Blank	\approx	C EDB/DBCP, 504 Acid Herbicides, 515	
Amber, 525 N/P Trip Blank	0000	C Acid Herbicides, 515	,
Amber, 525 HCl & Na ₂ SO ₃ MSD	Ŏ	O Pesticides, 608)
Amber, 515 HCl & Na ₂ SO ₃		O PCBs, 608	Waste Water Analysis
Amber, BNA N/P		Chlordane, 608	
Amber, BNA Na ₂ S ₂ O ₃ Collected By Amber, P/P N/P		O Toxaphene, 608	,
Amber, P/P Na ₂ S ₂ O ₃		Pesticides, 8081)
Vial, VOC HCI / Na ₂ S ₂ O ₃		PCBs, 8082	
Vial, VOC Customer ID #		—— Chlordane, 8081	SW846 Analysis
Vial, 504 Na ₂ S ₂ O ₃ Vial, 505 Na ₂ S ₂ O ₃ Referred By		O Toxaphene, 8081 O PCBs, Oil Wipe	
Jar, Oil Wipe		CDS, OF MADE	,
Encore Sampler Station ID #			
Sample Location County:		Air Canister	3.6.4.1.1
Sample Location County:		O TO-14A O Canister Cleaning, Only	Air Analysis
		Constant Classifing, Shay	·
		Other	,
		8	
		Ŏ	,
		8-	
		····	— I
ield Comments		Lab Com	ments
			1
		Ì	
hlorine,mg/l Cond,umho/cm DO,mg/l Flow,cfs Gage 1		· • • • • • • • • • • • • • • • • • • •	
50060 P94 P299 P61 P65	P400 P	10 P94	
PA 4708 (1/03)	White-Original/DE	S) Green-DES	Vallau-Sield Records



Inorganic Sample Submission Form

	Sample #			_
		ММ	DD	ΥΥ
D	ate Received			

									Date Rec	eived			
		Sample In	nformation	1	(INST	RUCT	IONS ON BAC	CK)	Parar	neters			
Client (B	ill to)							Template	Scioto	<u>Brush</u>	n Cre	ek Nuti	rient Sites
	roject Idei	ntity						•		Colun			
Species 1	()	project identity	requires prio	r approval)			1						
Division(DAPC DDAGW DERR DHWM DSW DSIWM Other	check one)		OEPA Distri CO CDO NEDO NWDO SEDO SWDO Other	ict(check one	e) 		00000	Demand - % Solids, Sec - BOD-20 day - BOD-5 day - BOD-Ultimate - CBOD-20 day - CBOD-Ultimate	•		• • • • •	Cyanide_Fro	etal CaCO ₃ Hexavalent (N/P_Filt) ee (WAD)
Sample T	ype(check o	one)	Matrix(chec	k one)				Conductivity Flashpoint				Cyanide_To Fluoride	lai
Ambient Complaint Complianc Litigation NPS Survey Raw Plant Distribution	000000000000000000000000000000000000000	≻ DW only	Air Filter Drinking wate Ground wate Sediment Soil Surface wate Waste water Reagent Wat Other					Solids_Diss(file Solids_Suspd(Solids_Total Solids_Total V	lt) (nonfilt)	(• • •	Phosphorus Sulfate	litrate+nitrite Fotal w/man dist. , Dissolved (Filt) phorous, Total
Other								Microbiology	y		_	Misc.	
Collection		_		OD ,	үү нн — <i>— 2</i>	MM	8	E. coli Fecal Coliform Fecal Strepto MMO-MUG Total Coliform	COCCUS	(Turbidity Chlord Chlord	ophyll A, 445
-		Enc	1					Metals ICP 1, Water	(A) Do	C+ C+ C+ F+		. Al. Ali I/ Cu 7.	a d foundmono)
Composite	Type Air Filter Cubitainer Cubitainer Cubitainer Cubitainer Cubitainer Cubitainer	Pres. NaOH HNO ₂ HNO ₃ Filt H ₂ SO ₄ H ₃ SO ₄ Filt N/P		ByByByByByByB)	Single O	ICP 2, Water ICP 3, Sedim ICP 4, SW844 ICP 5, SW844 ICP 6, Air Filt Vanadium Titanium	confy (Ca,Mgent only (Al,Ba 6 only (Al,Ba 6 SED only (Cr SIMA - Plea Level er only (As,Co,only (As,Cd,	q,Hardness) Ba,Ca,Cr,Cu,F (Al,Ba,Ca,Cr,Ni,Pb,Zn,M ase list only ((()) (()) (d,Pb,Se), L Se), L L	u,Fe,Mg,M ,Cu,Fe,I In)	,Mn,Na,Ni,K,S In,Na,Ni,K,Sr,Z Mg,Mn,Na,Ni,M using Metals p	
Sample Lo	ocation		County:				. Ō	Arsenic, SW84	16 only, LL		L.N		
							0	Cadmium, SW Lead, SW846 Selenium, SW require prior i	<i>only</i> , L L <i>1846 only</i> , L	L		honittal.	
							0000000	Antimony,L L Beryllium, L L, Cobalt, L L, W Copper, L L, M Silver, L L Thallium, L L	Water, Sed, & Vater, Sed, & A Vater only	&Air only Air only B samp	oles ana	per	
Field Com	ments								Lab Cor			- · · · ·	
- 1	Cond,umho/cm	1 *	Flow,cfs	Gage Ht, ft	pH, su	% Sat		Corr.Cond, umho/c	झा				
P50060	P94	P299	P61	P65	P400		P10	P94					
		<u> </u>	I										



Inorganic Sample Submission Form

DES Use Only				
Sample	#		_	
	MM	DD	YY	
Date Receive	ed			

					Date Received —		
Sample In	formation	(INSTRUCT	IONS ON BACK	()	Parameters		
Client (Bill to)				Template	Scioto Brus	h Creek I	Nutrient Sites
Special Project Identity				•	Sediment		
(project identity	requires prior approval)						
Division(check one) DAPC DDAGW DERR DHWM DSW DSIWM Other	OEPA District(check one) CO CDO NEDO NWDO SEDO SWDO Other	_	00	Demand % Solids, Sed 30D-20 day 80D-5 day 80D-Ultimate CBOD-20 day CBOD-5 day CBOD-Ultimate		O Acidit O Alkali O Bicarl O Chlor O COD O Cyani	nityTotal CaCO ₃ conate ide nium, Hexavalent (N/P_Filt) de_Free (WAD)
Sample Type(check one) Ambient O Complaint O Compliance O Litigation O NPS O Survey Raw O Plant O Distribution O Distribution O	Matrix(check one) Air Filter		0	Solids_Diss(filt Solids_Suspd(r Solids_Total Solids_Total Vo) nonfilt)	O Pheno O Phosp O Sulfat	de e pnia/Nitrate+nitrite plics, Total w/man dist phorus, Dissolved (Filt)
Collection Date Grab (or)	MM DD YY	нн мм	0 1	Microbiology E. coli Fecal Coliform Fecal Streptoo MMO-MUG Fotal Coliform	coccus	8	
Air Filter Cubitainer NaOH Cubitainer HNO ₃ Cubitainer HNO ₃ Cubitainer HSO ₄ Cubitainer H ₂ SO ₄ Cubitainer H ₂ SO ₄ Cubitainer N/P Cubitainer N/P		0000	O	CP 2, Water of CP 3, Sedime CP 4, SW846 CP 5, SW846 CP 6, Air Filte Vanadium CP Metals Or Metals Or Metals - Low Metals -	SED only (Al, Ba, Ca, Cers only (Cr, Ni, Pb, Zn, No. SIMA - Please list only (Cr, Ni, Pb, Zn, No. SIMA - Please list only (As, Cd, Pb, Se), only (As, Cd, Se), LL only (As, Cd), LL 6 only, LL) u,Fe,Mg,Mn,Na,Ni,Fe,Mg,Mn,Na,Ni,r,Cu,Fe,Mg,Mn,N y if not using M	
			O S The following n O A O C	ead, SW846 of elenium, SW8 equire prior notimony, L Leryllium, E L, Maobalt, E L, Wallium, L L Lhallium, L Lhallium, L Lin, L Li	M6 only, L L Notification to DES b Water, Sed, & Air only ster, Sed, & Air only alter only Bioa)
Field Comments					Lab Comments		
	Flow,cfs Gage Ht, ft P65	pH, su % Sat P400	Temp,oC Co	orr.Cond, umho/cn 94			

- c.c. TMDL Study Team Members
 - J. DeShon
 - D. Mishne
 - M. Silagy
 - M. Smith