Return form to:

Georgia Adopt-A-Stream 2 MLK Jr. Dr. SE Suite 1462 East Atlanta, GA 30334

# **GEORGIA ADOPT-A-STREAM**

Watershed Survey and Map Assessment

To be conducted at least once a year

AAS group name:		Investigator(s):
Type of waterbody:	stream / wetland / lake	
Water body name:		County(ies):
Approximate size of	drainage/study area:	acres
Date:	Time:	Picture/photo documentation? Yes/No

### I. CREATE A MAP OF YOUR WATERSHED

A copy of this map can be sent to AAS@gaepd.org to be filed with the Georgia Adopt-A-Stream state office.

## **II. LAND USES/ACTIVITIES AND IMPERVIOUS COVER**

### 1. Identify land uses and activities in the watershed which have the highest potential to impact water bodies:

Check all boxes that apply, describe the location of the activity(ies) under Notes on Location & Frequency of Activities and also mark the locations on your map. If too frequently occurring to record locations, so note. If you don't know some of the information below, write DK under Notes.

Please indicate if you:

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	-		

surveyed only adjacent to the waterbody surveyed the whole watershed Provide notes as necessary

Land Disturbing Activities & Other Sources of Sediment	Adjacent to Water	In Watershed	Notes on location & frequency of activity
Extensive areas disturbed by land development or construction of utilities, roads & bridges			
Large or extensive gullies			
Unpaved roads near or crossing streams			
Croplands			
Pastures with cattle access to water bodies			
Commercial forestry activities including harvesting and site-preparation			
Extensive areas of streambank failure or channel enlargement			
Other Agricultural Activities			
Confined animal (cattle or swine) feeding operations and concentrations of animals			
Animal waste stabilization ponds			
Poultry houses			
Highways and Parking Areas			
Shopping centers & commercial areas			
Interstate and controlled access highways and interchanges			
Major highways and arterial streets			
Other extensive vehicle parking areas			
Mining			
Quarries with sediment basins in live flowing streams			

Transportation and Motor Vehicle Services	Adjacent to Water	In Watershed	Notes on location & frequency of activity
Truck cleaning services			
Public and private automobile repair facilities			
Car washes and large auto dealers			
Rail or container transfer yards			
Airports with fuel handling/aircraft repair			
Business & Industry, General			
Activities with exterior storage or exchange of materials.			
Activities with poor housekeeping practices indicated by stains leading to streams or storm drains or on-site disposal of waste materials			
Heavy industries such as textiles & carpet, pulp & paper, metal, and vehicle production or fabrication			
Dry cleaners/outside chemical storage			
Food & Kindred Products			
Fertilizer production plants			
Feed preparation plants			
Meat and poultry slaughtering or processing plants			
Construction Materials			
Wood treatment plants			
Concrete and asphalt batch plants			

Waste Recycling, Movement & Disposal	Adjacent to Water	In Watershed	Notes on location & frequency of activity
Junk and auto salvage yards			
Solid waste transfer stations			
Landfills and dumps (old & active)			
Recycling centers			
Drum cleaning sites			
Illicit Waste Discharges*			
Sanitary sewer leaks or failure			
Overflowing sanitary sewer manholes due to clogging or hydraulic overloading			
Bypasses at treatment plants or relief valve in hydraulically overloaded sanitary sewer l			
Domestic or industrial discharges			
Extensive areas with aged/malfunctioning septic tanks			
Dry-weather flows from pipes (with detectable indications of pollution)			
Streamside areas of illegal dumping			

\* If found (most likely during stream surveys), these activities should be immediately reported to the local government or the EPD regional office. These phone numbers are listed in Chapter 4.

### Optional

**2. Percent impervious surface:** acre overlay, example map and acreage calculating grid in Index A. Example form in Chapter 5.

Coverage category for LANDUSE MAP method	impervious quotient	times	percent of	percent of impervious cover	
Forest/open land/undeveloped land/vacant/land owned by institutions	.005	х		%	
Agriculture/pasture/cropland	.005	х		%	
Single family residential (1.1 - 5 acre lot or no more than 1 dwelling per acre)	.12	х		%	
Single family residential (.5 - 1 acre lot or 0 – 2 dwellings per acre)	.19	х		%	
Low density residential / single family residential (.255 acre lot or 0 – 4 dwelling units per acre)	.26	x		%	
Low/medium density residential (.25 acre lot or smaller or 0 –8 dwelling units per acre)	.48	x		%	
Medium density residential (0 –12 dwelling units per acre)	.56	х		%	
High density residential (18 – 30 dwelling units per acre)	.65	x		%	
Townhouse/apartment	.48	х		%	
Office/light industrial (assembly, finishing, packaging products)	.70	х		%	
Heavy industrial (timber, chemical, cement, brick plants, lumber mills)	.80	х		%	
Commercial (business districts, commercial strip development, shopping centers, warehouses, parking lots, office buildings	.85	х		%	
Major roads	.90	x		%	
	Total percent of impervious sur		covered by	%	

Land use categories and quotient provided by the Atlanta Regional Commission

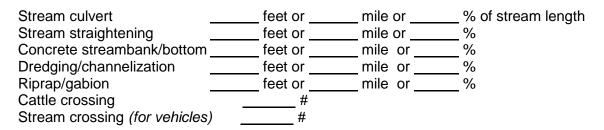
# **III. GENERAL WATERBODY AND WATERSHED CHARACTERISTICS**

This information will be gathered from your wetland, lake or stream segment.

# **1. Note the number of hydrologic modifications on your waterbody:** *structures that alter water flow*

None	 Beaver dams	
Dams	 Dredge spoils	
Bridges	 Pipes	
Waterfalls	 Other	

**2.** Note the approximate length of the stream that is affected by the following: *if assessing a wetland, lake or pond, some of the following may also affect your waterbody* 



**3. Note extent of vegetative buffer along the banks:** *at a minimum of 5 sites\*, at regular intervals (every 500 ft. in a ½ mile. section) note the following* 

#	Width in feet	<b>Location</b> (Left bank, Right bank or N, S, E, W side of wetland or lake)	Characteristics and comments
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

### 4. Check the categories that best describe the general appearance of the waterbody:

#### Litter:

- □ No litter visible
- Small litter occasionally (i.e., cans, paper)
- □ Small litter common
- Large litter occasionally (i.e., tires, pallets, shopping carts)
- □ Large litter common

### **Special Problems:**

- □ Spills of chemicals, oil, etc.
- □ Fish kills
- □ Wildlife, waterfowl kills

#### Erosion:

- □ No bank erosion or areas of erosion very rare; no artificial stabilization
- Occasional areas of bank erosion
- □ Areas of bank erosion common
- Artificial bank stabilization (i.e., riprap) present

**5. Comments on general waterbody and watershed characteristics:** (e.g. date and size of fish kill, increased rate of erosion evident, litter most evident after storms)

\* Fish kills should be immediately reported to DNR Wildlife Resources Division at 770-918-64

6. Summarize notable changes that have taken place since last year (if this is not your first year conducting the Watershed Survey).

## **IV. PIPE AND DRAINAGE DITCH INVENTORY**

In this section, provide information on pipes and drainage ditches found on the banks or in the waterbody. These pipes/ditches can be abandoned or active. Note the information for each pipe or drainage ditch you observe. *Make additional copies as necessary.* 

Pipe #	Location	Туре	Size	Flow	Waterbody condition	Comments

1. Number each pipe/ditch for mapping/locating purposes

2. <u>Location</u> of pipe/ditch: note whether in water, bank, near waterbody or other. Describe location.

**3.** Identify <u>type</u> of pipe (list all that apply): PVC, iron, concrete, galvanized; industrial outfall, sewage treatment plant outfall, storm drain, combined sewer overflow; agricultural field drainage, paddock or feedlot drainage, settlement basin/pond drainage, parking lot drainage, unknown, other

4. Size: measure approximate diameter of pipe: inches or centimeters

5. Describe the discharge <u>flow</u>: Rate of flow: none, intermittent, trickle, steady, heavy

Appearance: clear, foamy, turbid, oily sheen, color, other

Odor: none, rotten eggs/sewage, chemical, chlorine, other

**7. Waterbody condition: describe the bank/waterbody below pipe or drainage ditch:** no problem evident, eroded, sewage litter (e.g. toilet paper), litter (e.g. bottles, cans), lots of algae, other

**8. Comments of pipes and drainage ditches:** Use this space to explain or expand on information provided on pipes and discharges you have identified above. For example, you may want to identify particular facilities, or discuss in more detail the condition of the waterbody below the discharge. Use separate page if necessary.