STREAM CORRIDOR ASSESSMENT SURVEY OF THE LITTLE PATUXENT RIVER IN HOWARD COUNTY

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SUMMARY

The Little Patuxent River watershed encompasses over 66,200 acres and includes land in both Howard and Anne Arundel Counties. In 1998, the Maryland Clean Water Action Plan identified the Little Patuxent River as one of the State's water bodies that did not meet water quality requirements. In response to this finding, the Maryland Department of Natural Resources and the Howard County Department of Public Works formed a partnership to do a Stream Corridor Assessment (SCA) survey of the Howard County portion of the Little Patuxent River Watershed. The Howard County portion of the watershed covers 28,000 acres and lies predominantly within the Piedmont of Maryland. In 1999/2000 a Stream Corridor Assessment of the Little Patuxent stream network was performed. This survey is not intended to be a detailed scientific evaluation of the watershed. Instead, the Little Patuxent SCA survey was designed to provide a rapid overview of the entire stream network to determine where potential environmental problems are located and to collect some basic information about the stream. Results for this survey will be combined with other information on the Little Patuxent Watershed to develop a Watershed Restoration Action Strategy.

Over 88 miles of stream in the Little Patuxent Watershed were surveyed. It is important to note that the survey teams did not have access to all the streams in the watershed. There were 1,090 potential environmental problems were identified. The most common environmental concern seen during the SCA survey was pipe outfalls, which were reported at 529 sites. Other potential environmental problems recorded during the survey include: 119 sites with inadequately vegetated stream buffers, 103 bank erosion sites, 66 fish migration blockages, 45 channelized stream sections, 46 exposed pipe sites, 25 unusual condition sites, 7 trash dumping sites, and 1 active construction site near the stream. The survey also recorded information on 229 ponds and 148 tree blockages.

At each site, data was collected about each problem, its location noted, and photographs taken to document existing conditions. To aid in prioritizing future restoration work, field crews rated all problem sites on a scale of 1 to 5 in three categories. They were: 1) the severity of the problem; 2) how correctable the specific problem was; and 3) how accessible the site was. In addition, field teams also collected information on both in and near stream habitat condition at 89 representative sites that were spaced at approximately ½ to 1 mile intervals along the stream.

Based on the survey's initial results, a buffer planting has already been done at an inadequate buffer site inside of Altholton Park in October 2000. Two and a half acres of trees have been planted and additional plantings in other areas are being planned. Howard County has also incorporated the data from the SCA survey into the County's computerized Geographical Information System (GIS) and will prioritize areas for more detailed assessments and possible restoration.

This SCA survey has been developed by the Maryland Department of Natural Resources (DNR) Watershed Restoration Division as a watershed management tool. One of the main goals of the SCA survey is to compile a list of observable environmental problems so that future restoration efforts can be better targeted. It is hoped that once a list of environmental problems has been compiled, a dialog can be initiated among resource managers on the goals and targets of future environmental restoration efforts in the Little Patuxent Watershed. It is important to note that all of the problems identified as part of the Little Patuxent Stream Corridor Assessment survey can be addressed through existing State or Local government programs. The value of the present survey is that it can help to place the problems in a watershed context, and can be used by a variety of resource managers to plan future restoration work.

ACKNOWLEDGMENTS

Without the hard work and dedication of the Chesapeake Bay Restoration Crew of the Maryland Conservation Corps, this survey would not have been possible. The crew chiefs during the survey were Tina Stevens and Aaron Brown. The crewmembers were Robin Pellicano, Melody Nevins, Sarah Crane, Elizabeth Sudduth, Kevin Osterman, David Booth and Kathryn Samuel.

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INTRODUCTION

In 1998, Maryland's Clean Water Action Plan identified bodies of water that failed to meet water quality related requirements. One of the water bodies identified in the report was the Little Patuxent River. The Little Patuxent River is a tributary to the Patuxent River, which in turn flows into the Chesapeake Bay. The watershed encompasses over 66,200 acres and includes land in both Howard and Anne Arundel Counties. In response to the findings of the Maryland Clean Water Action Plan, the Maryland Department of Natural Resources has formed a partnership with Howard County to work together to assess and improve environmental conditions in the Little Patuxent Watershed. The main goals of this partnership are to develop and implement a Watershed Restoration Action Strategy (WRAS) for the Howard County portion of the Little Patuxent Watershed.

The first step in developing a Restoration Action Strategy for the Little Patuxent Watershed is to do an overall assessment of the condition of the watershed and the streams within it. This initial step is being accomplished using two approaches. First, a watershed characterization is being done that compiles and analyzes existing water quality, land use, and living resources data about the Little Patuxent Watershed (Shanks, 2001). While the watershed characterization provides good overall information on environmental conditions within the Little Patuxent Watershed, for the most part, information on the location of specific environmental problems is limited. To provide specific information on the location of environmental problems and restoration opportunities, a Stream Corridor Assessment (SCA) survey of the Howard County portion of the Little Patuxent River Watershed was also done.

The Stream Corridor Assessment survey is a new survey that has been developed by DNR's Watershed Restoration Division as a watershed management tool to identify environmental problems and help prioritize restoration opportunities on a watershed basis. As part of the survey, specially trained personnel walk the watershed's entire stream network and record information on a variety of environmental problems that can be easily observed within the stream corridor. Initial field surveys were done from November 1999 through March 2000, with some follow up investigations of specific problems done during the winter of 2001.

The area targeted for a SCA survey includes about 43% of the total Little Patuxent Watershed and lies predominantly within the Maryland Piedmont. The targeted area encompasses 28,000 acres (43.7 square miles), with over 88 miles of stream within the watershed. This watershed lies within the Baltimore-Washington Metropolitan Corridor. Approximately 60% of the watershed is in urban land use and includes the communities of Columbia, Guilford, and Savage. Figure 1 shows the geographic location of the watershed targeted in this survey. A digital orthophoto map of the Little Patuxent watershed is shown in Figure 2. The map is based on aerial photographs taken in April 1993. Figure 3 shows the same watershed boundaries superimposed on a seven and ½ minute USGS topographic quadrangle map.

As mentioned earlier, data collected during the SCA survey will be combined with information compiled in the watershed's characterization report to develop a Watershed Restoration Action Strategy for the Howard County portion of the Little Patuxent River Watershed. The Watershed Restoration Action Strategy in turn, will help guide future restoration efforts with the ultimate goals of restoring the areas natural resources and meeting State water quality standards.

Figure 1

Figure 2

Figure 3.

METHODS

To help identify some of the common problems that affect streams in a rapid and cost effective manner, the Watershed Restoration Division of the Maryland Department of Natural Resource has been working for the last several years to develop the Stream Corridor Assessment (SCA) survey. The four main objectives of the survey are:

1. To provide a list of observable environmental problems present within a stream system and along its riparian corridor.

2. To provide sufficient information on each problem so that a preliminary determination of both the severity and correctability of a problem can be made.

3. To provide sufficient information so that restoration efforts can be prioritized.

4. To provide a quick assessment of both in- and near-stream habitat conditions so that comparative assessments can be made of the condition of different stream segments.

It is important to note that the SCA survey is not intended to be a detailed scientific survey, nor will it replace the more traditional chemical and biological surveys. Instead, the SCA survey provides a rapid method of examining an entire drainage network so that future monitoring, management and/or conservation efforts can be better targeted. One advantage of the SCA survey over chemical and biological surveys is that the SCA survey can be done on a watershed basis both quickly and at relatively low cost.

Maryland's SCA survey is really not a new concept, but a refinement and the systematic implementation of an old approach, which in its simplest form is often referred to as a stream walk survey. Many of the common environmental problems affecting streams, such as excessive stream bank erosion or blockages to fish migration, are fairly easy to identify by an individual walking along a stream. Furthermore, an advanced degree in forestry is not needed to identify a stream segment that doesn't have any trees along its banks, nor does a person need a degree in engineering to see that a sewage pipeline has been exposed by stream bank and/or bed erosion and could be leaking sewage into the stream. With a limited amount of training, most people can correctly identify these common environmental problems.

As mentioned earlier, a walking survey of stream systems is not a new concept and there have been several attempts to standardize this approach over the years. Many earlier approaches such as EPA's, "Streamwalk Manual" (EPA, 1992), Maryland Save our Stream's "Conducting a Stream Survey," (SOS, 1970) and Maryland Public Interest Research Foundation "Streamwalk Manual" (Hosmer, 1988) were designed to be done by citizen volunteers with little or no training. While these surveys can be a good guide for citizens that are interested in looking at their community streams, the data collected during these surveys can vary significantly based on

the background of the surveyor. In the Maryland Save our Stream "Stream Survey," for example, citizen groups are given some guidance on how to organize a survey and are provided a slide show explaining how to do the survey. After approximately one hour of training, citizen volunteers are then sent out in groups to walk designated stream segments. During the survey, volunteers usually walk their assigned stream segment in a couple of hours and return their data sheets to the survey organizers to be analyzed. While these surveys can help make communities more aware of the problems present in their local stream, citizen groups normally do not have the expertise or resources to properly analyze or fully interpret the information collected. In addition, the data collected is usually only enough to indicate that a potential environmental problem exists at a specific location but does not provide sufficient information to judge the severity of the problem.

Other visual stream surveys, such as the Natural Resources Conservation Service's "Stream Visual Assessment Protocols" (NRCS, 1998), are designed to be done by trained professionals looking at a very specific stream reach, such as at a stream passing through an individual farmer's property. While this survey can provide useful information on a specific stream segment, it is usually not done on a watershed basis.

The Maryland SCA survey has been designed to bridge the gap between these two approaches. The survey is designed to be done by a small group of well-trained individuals that walk the entire stream network in a watershed. While the individuals doing the survey are usually not professional natural resource managers, they do receive several days of training in both stream ecology and SCA survey methods.

While almost any group of dedicated volunteers can be trained to do a SCA survey, the Maryland Conservation Corps (MCC) has proven to be an ideal group to do this work in Maryland. The Maryland Conservation Corps is part of the AmeriCorps Program, which was started by President Clinton to promote greater involvement of young volunteers in their communities and the environment. The MCC program is managed by DNR's Forest and Park Service. Volunteers with the MCC are 17-25 years old and can have educational backgrounds ranging from high school to graduate degrees. With the proper training and supervision, these young, intelligent and motivated volunteers are able to significantly contribute to the State's efforts to inventory and evaluate water quality and habitat problems from a watershed perspective. For more information on the Maryland Conservation Corps call their main office in Annapolis at (410) 260-8166 or visit their web site at: www.dnr.state.md.us/mcc.

Prior to the start of the Little Patuxent SCA Survey, the 10 members of the MCC's Bay Restoration Crew received a week of training. As part of this training, crew members learn how to identify common problems observable within the stream corridor, how to record problem locations on survey maps and how to fill out data sheets for specific problem. For each site in a watershed there is a unique six-digit identification number assigned. The first three digits are the map number, the fourth digit is the team number, and the last two digits are a field site number starting with 01. The data sheets used in this survey are shown in Appendix A. Procedures for documenting general stream conditions at reference sites were also reviewed during training. Reference sites are located at approximately 1/2-mile intervals along the stream. In addition to filling out a half page data sheet, field crews took photographs at all problem and reference sites

to document existing conditions. Detail information on the procedures used in the Maryland SCA survey can be found in, "Stream Corridor Assessment Survey – Survey Protocols" (Yetman, 2001). Copies of the survey protocols can be obtained by contacting the Watershed Restoration Division of the Maryland Department of Natural Resources in Annapolis, MD.

Field surveys of the Little Patuxent River began in November 1999, and over the next several months, the survey teams walked the stream's drainage network collecting information on potential environmental problems. Potential environmental problems commonly identified during the SCA Survey include: channelized stream sections, excessive bank erosion, exposed pipes, inadequate stream buffers, fish migration blockages, trash dumping sites, near stream construction, pipe outfalls and unusual conditions. In addition, the survey recorded information on the location of potential wetlands creation sites, the location of ponds and data on the general condition of in-stream and riparian habitats.

It is not unusual for an SCA survey to identify a large number of problems in each category. For example, in an earlier survey of the Swan Creek Watershed in Harford County, a total of 453 potential environmental problems were identified along 96 miles of stream. The most frequently reported problem during the survey was stream bank erosion, which occurred at 179 different locations (Yetman et. al., 1996). Follow up surveys found that while stream bank erosion was a common problem throughout the watershed, the severity of the erosion problem varied substantially among the sites and was fairly minor at most sites. Based on this experience the SCA survey has field crews evaluate and score all problems on a scale of 1 to 5 in three separate areas: problem severity, correctability, and accessibility. A major part of the crews training is devoted to how to properly rate the different problems identified during the survey.

While the ratings are subjective, they have proven to be very valuable in providing a starting point for more detailed follow-up evaluations. This is because in many cases, resource professionals such as fisheries biologists, foresters, hydrologists and engineers do not have the time to walk hundreds of miles of streams to determine where the problems are. What the SCA survey does is train the MCC and other groups to walk streams for them and collect some very basic information about commonly seen problems. Once the SCA survey has been completed, the data collected can then be used by different resource professionals to help target future restoration efforts. A regional forester for example can use data collected on inadequate stream buffers to help target future riparian buffer plantings, while the local fishery biologist can use the data on fish blockages to help target future fish passage projects to reestablish spawning runs. The inclusion of a rating system in the survey gives the resource professional an idea of which sites the field crew believed were the most severe, easiest to correct and easiest to access. This information combined with photographs of the site can help resource managers focus their own follow up evaluations and fieldwork at the most important sites.

A general description of the rating system is given below. More specific information on the criteria used to rate each problem category is provided in the SCA – Survey Protocols (Yetman, 2000). It is important to note that the rating system is designed to contrast problems within a specific problem category. When assigning a severity rating to a site with an inadequate stream buffer for example, the rating is only intended to compare the site to others in the State with inadequate stream buffers. The rating is not intended to be applied across categories. A

trash dumping site with a very severe rating may not necessarily be a more significant environmental problem than a stream bank erosion site that received a moderate severity rating.

The **problem severity** rating has generally been found to be the most useful rating and indicates how bad a specific problem is relative to others in the same problem category. The severity rating is used to answer questions such as, where are the worst stream bank erosion sites in the watershed, or where is the largest section of stream with an inadequate buffer. The scoring is based on the overall impression of the survey team of the severity of the problem at the time of the survey.

* A very severe rating of 1 is used to identify problems that have a direct and wide reaching impact on the stream's aquatic resources. Within a specific problem category, a very severe rating indicates that the problem is among the worst that the field teams have seen or would expect to see. Examples would include a discharge from a pipe that was discoloring the water over a long stream reach (greater than ½ mile) or a long section of stream (greater than ½ mile) with high raw vertical banks that appear to be unstable and eroding at a fast rate.

* A moderate severity rating of 3 is used to identify problems that appear to be having some adverse environmental impacts but the severity and/or length of stream affected is fairly limited. While a moderate severity rating would indicate that field crews did believe it was a significant problem, it also indicates that they have seen or would expect to see much worse problems in that specific problem category. Examples would include: a small fish blockage that was passable by strong swimming fish like trout, but a barrier to resident species such as sculpins; or a site where several hundred feet of stream had an inadequate forest buffer and had stable banks with grass and low shrubs.

* A minor severity rating of 5 is given to problems that do not appear to be having a significant impact on stream and aquatic resources. A minor rating indicates that a problem was present but compared to other problems in the same category it would be considered minor. Examples would include: an outfall pipe from a storm water management structure that is not discharging during dry weather and does not have any erosion problem either at the outfall or immediately downstream, or a section of stream that has stable banks and some trees along both banks but the forest buffer is less than 50 feet.

The **correctability rating** provides a relative measure on how easily the field teams believe the problem can be corrected. The correctability rating can be helpful in determining which problems can be easily dealt with when developing a restoration plan for a drainage basin. One restoration strategy would initially target the severest problems that are the easiest to fix.

The correctability rating can also be useful in identifying simple projects that can be done by volunteers, as opposed to projects that require more significant planning and engineering efforts.

* A minor correctability rating of 1 is assigned to problems that can be corrected quickly and easily using hand labor, with a minimum amount of planning. These types of projects would usually not need any Federal, State or local government permits. It is a job that small group of volunteers (10 people or less) could fix in less than a day without using heavy equipment. Examples would be removing debris from a blocked culvert pipe, removing less than two pickup truck loads of trash from an easily accessible area or planting trees along a short stretch of stream.

* A moderate correctability rating of 3 is given to sites that may require a small piece of equipment, such as a backhoe, and some planning to correct the problem. This would not be the type of project that volunteers would usually do by themselves, although volunteers could assist in some aspects of the project, such as final landscaping. This type of project would usually require a week or more to complete. The project may require some local, State or Federal government notification or permits, however, environmental disturbance would be small and approval should be easy to obtain.

* A very difficult correctability rating of 5 is given to problems that would require a large expensive effort to correct. These projects would usually require heavy equipment, significant amount of funding ($100,000 or more), and construction could take a month or more. The amount of disturbance would be large and the project would need to obtain a variety of Federal, State and/or local permits. Examples would include a potential restoration area where the stream has deeply incised several feet over a long distance (i.e., several thousand feet) or a fish blockage at a large dam.

The **accessibility rating** is used to provide a relative measure of how difficult it is to reach a specific problem site. The rating is made at the site by the field survey team, using their field map and field observations. While factors such as land ownership and surrounding land use can enter into the field judgments of accessibility, the rating assumes that some access to the site could be obtained if requested from the property owner.

* A very easy accessibility rating of 1 is assigned to sites that are readily accessible both by car and on foot. Examples would include a problem in an open area inside a public park where there is sufficient room to park safely near the site. If heavy equipment was needed, the site is easily accessible using existing roads or trails.

* A moderate accessibility rating of 3 is assigned to sites that are easily accessible by foot but not easily accessible by a vehicle. Examples would include a stream section that could be reached by crossing a large field or a site that was accessible only by 4-wheel drive vehicles.

* A very difficult accessibility rating of 5 is assigned to sites that are difficult to reach both on foot and by a vehicle. Examples would include a site on private land where there are

no roads or trails nearby. To reach the site it would be necessary to hike at least a mile. If equipment were needed to do the restoration work, an access road would need to be built through rough terrain.

Following the completion of the survey, information from the field data sheets were entered into a Microsoft Access database and verified by the field teams. In addition, 1,443 photographs taken during the survey were labeled and organized by site number in binders. The photographs were also digitized using a flat bed scanner and placed on a photo CD so they can be distributed to interested parties. This data was then incorporated into an ArcView application to produce the maps presented in this report.

RESULTS

A total of 1,090 problem data sheets, 89 representative data sheets, and 229 pond site data sheets were filled out during the survey. Included in the problem data sheets were 529 pipe outfalls, 148 tree blockages, 119 sites with inadequately vegetated stream buffers, 103 bank erosion sites, 67 fish migration blockages, 45 channelized stream sections, 46 exposed pipe sites, 25 unusual condition sites, 7 trash dumping sites, and 1 active construction site near the stream. Three comment data sheets were also completed during the survey to provide additional information about specific problems. A summary of survey results is presented in Table 1 and the data collected during the survey is presented in Appendices B and C. Appendix B provides a listing of information by problem number along with its location, using latitude and longitude coordinates. Information in this format is useful when working with maps showing the location of problem sites to determine what problems may be present along a specific stream reach. In Appendix C, the data is presented by problem type, with more detailed information about each problem. Presenting the data by problem type allows the reader to see which problems the field crews rated the most severe or easiest to fix within each category.

Table 1. Summary of results from Little Patuxent River SCA Survey.

Potential Problems Identified	Number	Estimated Length	Very Severe	Severe	Moderate	Low Severity	Minor
Pipe Outfalls	**529**	**NA**	1	2	35	245	246
Tree Blockages	**148**	**NA**	Na	Na	Na	Na	Na
Inadequate Buffers	**119**	**97,265 feet (16.7 miles)**	5	15	39	49	11
Erosion Site	**103**	**51,405 feet (9.7 miles)**	2	4	33	50	14
Fish Blockages	**67**	**NA**	-	4	17	21	25
Channel Alterations	**45**	**15,662 feet (3 miles)**	-	3	15	20	7
Exposed Pipes	**46**	**455 feet (0.08 mile)**	2	3	12	18	11
Unusual Conditions	**25**	**NA**	1	4	4	15	1
Trash Dumping	**7**	**NA**	-	1	1	3	2
In/Near Stream Construction	**1**	**NA**	-	-	1	-	-
TOTAL	**1090**		**11**	**36**	**157**	**420**	**317**
Pond Sites	**229**						
Representative Sites	**89**						

Pipe Outfalls

Pipe outfalls include any pipes or small man made channels that discharge into the stream through the stream corridor. Pipe outfalls are considered a potential environmental problem in the survey because they can carry uncontrolled runoff and pollutants such as oil, heavy metals and nutrients to a stream system. A total of 529 pipe outfalls were identified during the survey, making it the most frequently reported problem (Figure 4a). This is not surprising since much the Little Patuxent River flows through the communities of Columbia, Guilford and Savage and much of the land in the watershed has been urbanized. The locations of pipe outfalls are shown in Figure 4 a & b. As expected, most of the pipe outfalls are located in the more urbanized central portion of the watershed.

Sixty percent or 320 of the 529 outfall pipes observed during the survey were found to have some type of discharge coming out of them. Of these, only 38 were reported to have a discharge that had some coloration or smell associated with it (Appendix C). The remaining discharges were recorded as clear with no odor. The survey was done during the late fall and winter of 1999/2000. Snow was on the ground during part of the survey and snowmelt could account for the high percentage of discharging pipes.

Figure 4c shows the frequency of the severity rating given to pipe outfalls during the survey. As can be seen from the graph, the majority of the pipe outfalls were given either a very low or minor severity rating. Only one problem at Site LP110234 received a very severe rating. During the survey, field crews found an open manhole that was discharging sewage at a rapid rate at this site. This problem was reported to Howard County and was corrected immediately. Two other sites (Sites LP022308 and LP082342) received a severe rating and at both of these sites, a colored discharge and a sewage smell were reported. There were no estimates of the amount of fluid coming from the pipes. No immediate follow up actions were taken as part of this study to determine the source of the color or smell coming from any of the pipes. In some cases, coloration or smell from a storm drainpipe may be a sporadic occurrence. This is especially true in areas where there is no stormwater management system present.

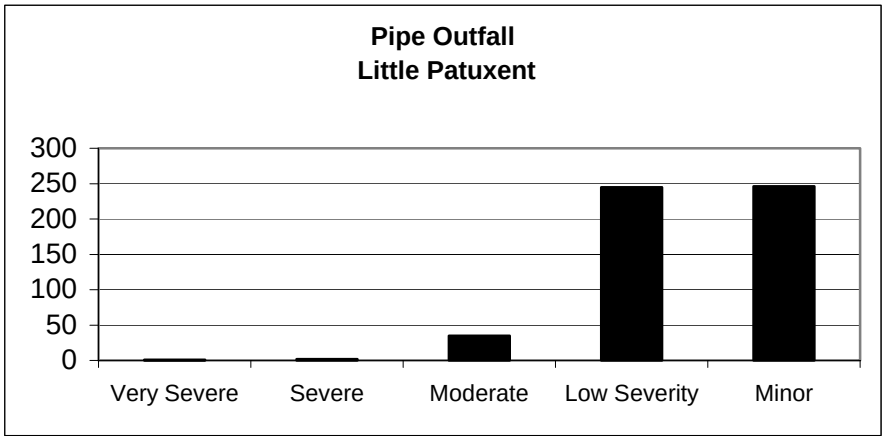

Figure 4c

Figure 4a.

Figure 4b.

Tree Blockages

The locations of tree blockages were recorded as part of the Little Patuxent SCA survey at the request of Howard County. While fallen trees can provide a refuge for fish and other animals, large blockages can also trap debris, creating a temporary dam and causing flooding of adjacent land. In a high water event, a breach of a debris dam could also cause extensive damage downstream. If a blockage occurs at or near a road crossing, an increase in flow could overtop the road. Debris clogging of road culverts is one of the main causes of road failure during large rain events. Proximity of tree blockages to road crossing, the amount of the channel effected by the blockage, and the surrounding land use were noted during the field survey (Appendix C).

The survey crew recorded one hundred forty-eight tree blockage sites. The locations of tree blockages are shown in Figure 5. Thirty-two of these blockages were within 250 feet of a bridge or culvert and 30 were within 1000 feet. Severity was recorded as “bad” at 28 sites, “moderate” at 82 sites, and “minor” at 38 sites. This severity rating is based to the size of the blockage and the amount of debris present at a site. Most of the tree blockages are concentrated in the central portion of the watershed. This area is much more developed and has a larger amount of erosion that can lead to trees slumping down into the stream. Only 15% of the tree blockages were located in an area described as “natural”. “Natural” areas were forested areas without development of any kind. The remaining 85% occurred in areas that were considered partially to fully developed. No serious debris jams of road crossings were observed during this survey.

Figure 5.

Erosion Sites

Erosion is a natural process and necessary to maintain good aquatic habitat in a stream. Too much erosion, however, can have the opposite effect, destabilizing stream banks, destroying in-stream habitat and causing significant sediment pollution problems downstream. Severe erosion problems occur when either a stream's hydrology and/or sediment supply have been significantly altered. This often occurs when land use in a watershed changes. As a watershed becomes more urbanized, forest and agricultural fields are developed into residential housing complexes and commercial properties. As a result, the amount of impervious surfaces in a drainage basin increase, which then causes the amount of runoff entering a stream to also increase. In the Little Patuxent watershed, 26% of the landscape surface is impervious (Weller, personal communication, Shanks, 2001). The stream channel will, over time, adjust to the new flows by eroding the streambed and banks to increase its size. This channel readjustment can extend over decades, during which time excessive amounts of sediment from unstable eroding stream banks can have very detrimental impacts on the stream's aquatic resources.

Unstable eroding streams are areas where the stream banks are almost vertical and the roots from the vegetation along the stream's banks are unable to hold the soil on the banks. Unstable eroding stream banks were reported at 103 sites during the survey (Figure 6a). The majority of the erosion sites showed moderate to minor erosion that extended over long distances. The lengths of stream segments that were recorded as having unstable banks varied from 6 feet in some areas, to other areas where up to 2 miles of stream was found to have an erosion problem (Appendix C). Overall, results indicate approximately 9.7 miles of unstable eroding banks in the Little Patuxent watershed. Figure 6b shows the frequency of the severity rating given to erosion sites. Only two sites received a very severe rating and five other sites were rated as severe.

A number of significant erosion problems were seen in the Columbia area including along Jonestown Tributary, Columbia Tributary # 3 and the mainstem of Little Patuxent River. A total of twenty erosion sites were identified in the Jonestown tributary including Site LP039314, which received the highest severity rating. On Columbia Tributary # 3, an additional seven erosion problems reported. Jonestown Tributary and Columbia Tributary # 3 both join the mainstem of the Little Patuxent River just upstream of Site LP105101. Stream bank erosion at Site LP105101 was given a severity rating of 1 (i.e., very severe) and erosion problems at that site were reported to extend over 2 miles. The erosion problems in these areas are believed to be related to the large amount of development that has occurred in the Columbia area over the last 40 years.

The survey also showed many erosion sites at or directly downstream of inadequate buffer sites. In some cases, riparian buffer plantings could help reduce erosion over time at some of these sites. However, in areas where streams are going through major readjustments, tree planting alone will not solve the problem.

Head cuts were also reported at several sites during the survey. Head cuts are areas where the streambed drops suddenly and indicate continuing readjustment of the stream channel. An example of an active head cut can be seen at Site LP039308.

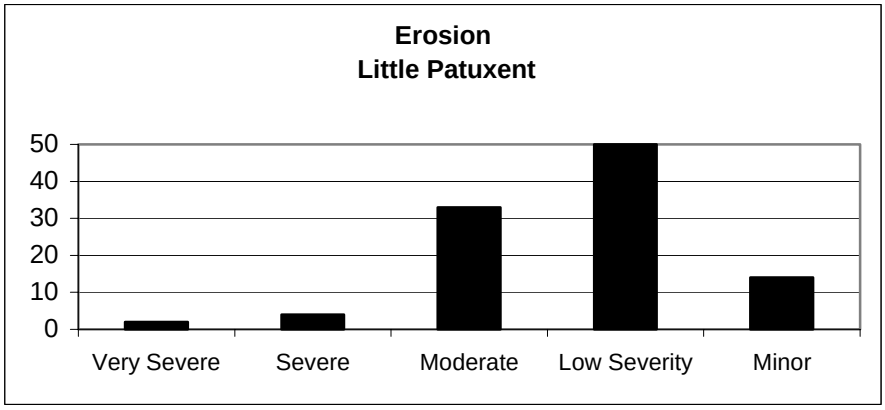
Erosion
Little Patuxent
50
40
30
20
10
0
Very Severe
Severe
Moderate
Low Severity
Minor

Figure 6b

Figure 6a

Inadequate Buffers

Forested stream buffers are very important for maintaining healthy Maryland streams. They help shade the stream to prevent excessive solar heating and their roots stabilize the streams banks. Forest buffers also help remove nutrients, sediment and other pollutants from runoff and the leaves from trees are a major component of the stream's food web. Because of the importance of stream buffers not only in maintaining healthy streams, but also in reducing nutrient loadings to the Chesapeake Bay, Maryland is committed to recreating forest buffers along streams.

While there is no single minimum standard for how wide a stream buffer should be in Maryland, for the purposes of this study a buffer is generally considered inadequate if it is less than 50 feet wide, measured from the edge of the stream. Inadequate buffers were reported at 119 sites during the survey as shown in Figure 7a. The field crew provided a rough estimate of the length of the inadequate stream buffer at all sites (Appendix C). Based on the data that was collected, there are approximately 97,265 feet (16.7 miles) of inadequate buffer in the Little Patuxent watershed. Field teams found inadequate buffers ranging in distance from 75 feet to 6,900 feet. This survey was done in a highly urbanized area, with mowed lawn reported as the dominant adjacent land use at inadequate buffer sites, accompanied by a small amount of agricultural land and parkland. While a large number of inadequate buffer sites were identified, most sites received a moderate to low severity rating (Figure 7b). This would indicate that most of the stream reaches with inadequate buffers were not very long or some trees were already present at many of the sites.

Survey results indicate that there are several possible locations on both public and private lands where forested buffers could be reestablished. Sites LP097230 and LP091120 received the highest severity rating possible and should be investigated to determine if establishing a forested buffer would be possible. In some locations, including Sites LP041304, LP042310, and LP128106, bike paths come close to the stream and there may be opportunities to plant trees between the bike path and the stream to allow for larger buffers in these areas. Another area that should be further investigated is site LP162204, which is above Centennial Lake. A vegetated stream buffer in this area could help reduce nutrient input to the lake. Centennial Lake was constructed in the early 1980's and algae growth, which could be caused by excess nutrients, is a problem in the lake. Based on the survey's initial results, a buffer planting has already been done at site LP128106 and site LP128105, inside of Altholton Park in October 2000.

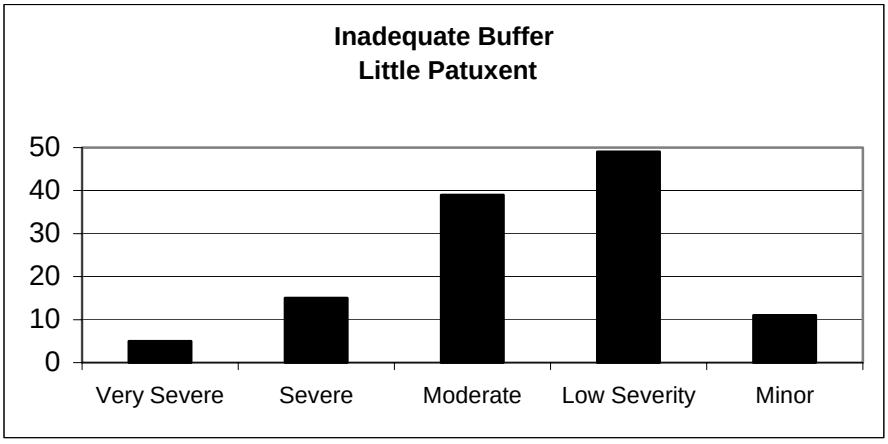
Inadequate Buffer
Little Patuxent
50
40
30
20
10
0
Very Severe
Severe
Moderate
Low Severity
Minor

Figure 7b

Figure 7a

Fish Migration Barriers

Fish migration barriers are anything in the stream that significantly interferes with the free movement of fish upstream. Unimpeded fish passage is especially important for anadromous fish that live much of their lives in tidal waters but must move into non-tidal rivers and streams to spawn. Unimpeded upstream movement is also important for resident fish species, many of which also move both up and down stream during different parts of their life cycle. Without free fish passage, some of the sections in a stream network can become isolated. If a disturbance occurs in an isolated stretch of stream, such as a sewage line break that discharges a large amount of raw sewage into a small tributary, some or all fish species may be eliminated from that isolated section of stream. With a fish blockage present and no natural way for a fish to repopulate the isolated stream section the diversity of the fish community in an area will be reduced and the remaining biological community may be out of natural balance.

Fish blockages can be caused by man-made structures such as dams or road culverts, and by natural features such as waterfalls or beaver dams. Fish blockages occur for three main reasons. First, a vertical water drop such as a dam can be too high for fish to jump or swim over the obstacle. A vertical drop of 6 inches may cause a fish passage problem for some resident fish species, while anadromous fish can usually move through water drops of up to 1 foot, providing there is sufficient flow and water depth. The second reason a structure may be a fish passage problem is because the water is too shallow. This can often occur in channelized stream sections or at road crossing where the water from a small stream has been spread over a large flat area and the water is not deep enough for fish to swim through. Finally, a structure may be a fish blockage if the water is moving too fast through it for fish to swim through. This can occur at road crossings where the culvert pipe has been placed at a steep angle and the water moving through the pipe has a velocity that is higher than a fish's swimming ability.

Sixty-seven fish migration barriers were reported during the survey. The locations of fish migration blockages are shown in Figure 8a. The blockages were due to a number of reasons including small dams (10), road crossings (17), pipe crossings (5), channelized stream sections (5), natural falls (8), ponds (7), and debris dams (11). Of the remaining fish blockages, gabion baskets and a weir were reported to cause one fish migration blockage each. Most of the sites were given moderate to minor severity ratings (Figure 8b). Overall, the mainstem of the Little Patuxent River is relatively barrier free. The only man made structures on the River's main stem are two small dams (Sites LP110121 and LP105106), which were in the upper portion of the watershed. Downstream of the area that was surveyed there is a dam at the Fort Meade Wastewater Treatment plant. This dam, however, does have a working fish ladder and the migration of Blueback herring and alewife through the ladder has been documented. Once these anadromous fish pass through the fish ladder at Fort Meade, there are no presently known blockages to their migration until they reach Savage Mill. Savage Mill is located at the fall line between the Coastal Plain and Piedmont physiographic provinces and there is a natural waterfall present at Site LP049501. The waterfalls is composed of a series of greater than 1-foot water drops and it is presently believe that alewife and herring would have difficulty migrating upstream through this area. This site was given a minor ranking because it is a natural barrier.

Any strategy to remove fish migration barriers in the Little Patuxent River should first attempt to keep the mainstem of the River as barrier free as possible. In addition, barriers that isolate large sections of tributaries from the mainstem, such as Site LP121109, or barriers that isolate significant portions of the upper portion of a tributary, such as Site LP099247, should also be targeted.

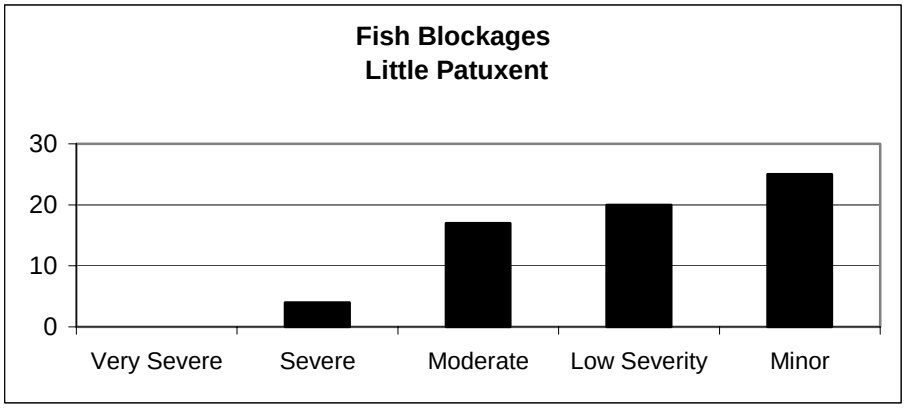

Figure 8b

Figure 8a.

Channel Alterations

Channel alteration is found in stream sections where the stream's banks and channel have been significantly altered from a natural condition. This includes areas where the stream may have been straightened and/or where the stream banks have been hardened using rock, gabion baskets or concrete over a significant length (usually 100 feet or more). It does not include road crossings unless a significant portion of the stream above or below the road has also been channelized. In addition, places where a small section of only one side of the stream's banks may have been stabilized to reduce erosion were not reported as channel alterations. For the purposes of this survey, channel alteration also does not include tributaries where storm drains were placed in the stream channel and the entire tributary is now piped underground. While these stream sections have been significantly altered, it is not possible to tell by walking the stream corridor precisely where this was done.

Results of this survey indicate that the stream has been recognizably altered in 45 areas and their locations are shown in Figure 9a. The total length of stream affected by channelization was estimated to be 14,262 feet or about 2.7 miles miles. There were no major stream systems reported in the survey as being extensively channelized and most of the sites were given a moderate to minor severity rating (Figure 9b). Most of the sites identified were also on small channels. Over half of the sites were channelized with concrete (25), while 9 were earthen channels that had been straightened, 8 were armored with rip-rap, 1 channel was lined with gabion baskets, and 2 were lined with wood. The correctability rating given for most of these sites were high because of the difficulty and expense of removing concrete. At one site, LP125301, it appears that the concrete channel is failing and the stream is beginning to flow underneath the concrete. Though this site received a low severity rating because of its short length, extensive gullying could occur beneath the concrete if it is not fixed.

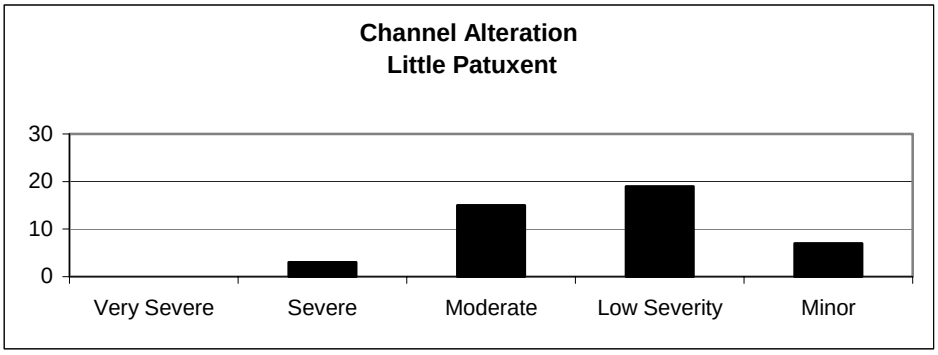

Figure 9b

Figure 9a.

Exposed Pipes

Exposed pipes are any pipes that are in the stream or along the stream's immediate banks that could be damaged by a high flow event. It does not include pipe outfalls where only the open end of the pipe is exposed. Exposed pipes do include: 1) manhole stacks in or along the edge of the stream channel, 2) pipes that are exposed along the stream banks, 3) pipes that run under the stream's bed and have been exposed by stream down-cutting, and 4) pipes that are built over a stream but are low enough that they could be affected by frequent high storm flows.

In urban areas, it is very common for pipelines and other utilities to be located in the stream corridor. This is especially true for gravity sewage lines that depend on the continuous downward slope of the pipeline to move sewage to a pumping station or treatment plant. Since streams are located at the lowest points of the local landscape, engineers often build sewage lines paralleling streams to collect sewage from adjacent neighborhoods. While the pipelines are stationary, streams can migrate and over time can expose previously buried pipelines. When this occurs, the pipeline becomes vulnerable to being punctured by debris in the stream. Fluids in the pipelines can be discharged into the stream, causing a serious water quality problem.

Exposed pipes were reported at forty-six sites during the survey. Locations of these sites are shown in Figure 10a. Of those, thirteen were manhole stacks, twenty-three were places where pipelines crossing the bottom of the stream had been exposed, seven sites had pipes exposed along the edge of the stream channel, and pipes were located crossing above the stream at 3 sites. Field survey teams reported 2 sites as having very severe problems. Sites LP039303 and LP064305 had discharges with a sewage odor and should be investigated further.

No other discharges were reported during the survey and most sites were give a moderate to low severity rating (Figure 10b). All exposed pipe photos should be reviewed by public works officials and follow-up visits should be done based on their evaluations.

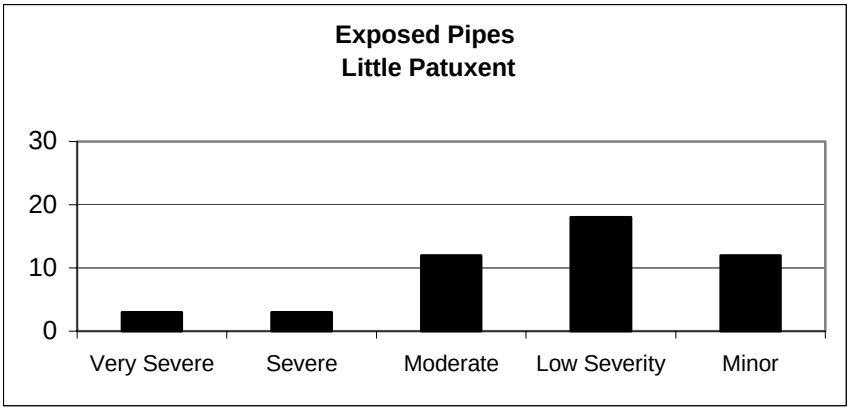

Figure 10b

Figure 10a

Unusual Conditions/Comments

The unusual condition/comment data sheets are used by survey teams to record the location of anything out of the ordinary seen during the survey or to provide some additional written comments on a specific problem. Twenty-five unusual condition sites were found during the Little Patuxent survey (Figure 11a) and two comment data sheets were filled out. Site LP110234, a manhole discharging sewage, was given the highest severity rating. Three other sites were reported to have a sewage odor, but were not associated with an exposed pipe or pipe outfall. The other problems frequently recorded were red flock and large amounts of algae. These were give lower severity ratings (Figure 11b).

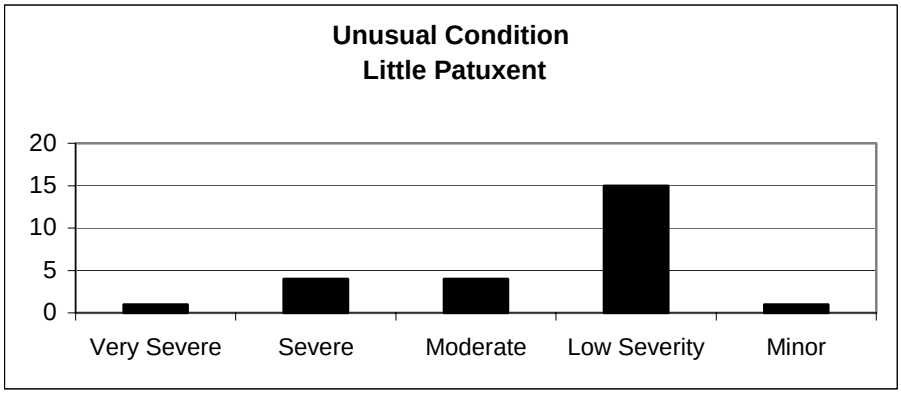

Figure 11b

Figure 11a

Trash Dumping Sites

The trash dumping data sheets are used to record the location of places where large amounts of trash has been dumped inside the stream corridor or to note places where trash tends to accumulate. The field survey crew found seven sites where there was excessive trash and their locations are shown in Figure 12a. Only one was recorded as severe, Site LP031320, which is a construction site. It was estimated to require 15 pick-up truckloads to remove all the trash from this site. Four sites were recorded as having yard waste, one had residential waste and one had industrial waste. These sites were given severity rating ranging from moderate to minor (Figure 12b).

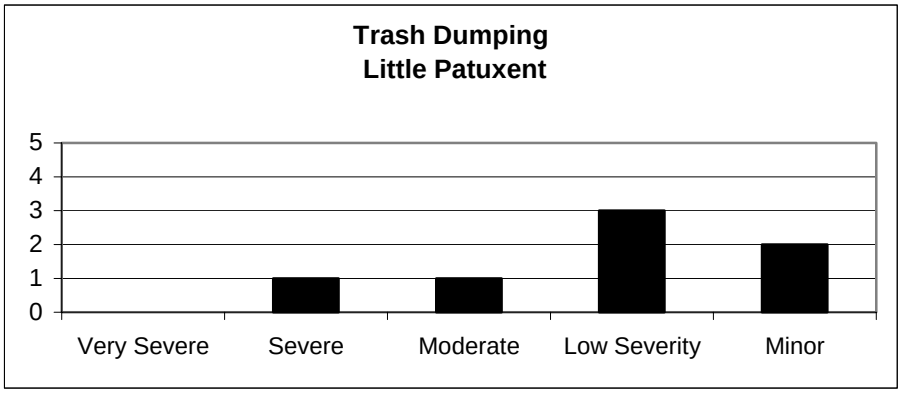

Figure 12b

Figure 12a.

In/Near Stream Construction Sites

In or near stream construction data sheets are used to document the locations where major disturbances are occurring inside or near the stream corridor at the time of the survey. Survey teams report evidence of inadequate sediment control measures or if sediment pollution from the site has affected the stream. In or near stream construction was only reported at one site during the Little Patuxent survey (Figure 13). Site LP073218 was reported to have excess sediment in the stream channel and the field survey crew was unaware of any sediment control measures.

Figure 13

Representative Sites

Representative sites are used to document the general condition of both in-stream habitat and the adjacent riparian (stream bank) corridor. The representative site evaluations procedures used during the survey are very similar to the habitat evaluations done as part of the Maryland Save-Our-Stream's Heartbeat Program and are based on the habitat assessment procedures outlined in EPA's rapid bioassessment protocols (Plafkin, et. al., 1989). At each representative site, data was collected on 10 separate parameters. Habitat parameters that were evaluated include:

* Attachment Sites for Macroinvertebrates
* Shelter for Fish
* Sediment Deposition
* Channel Flow Status
* Condition of Banks
* Embeddedness
* Channel Alteration
* Stream Velocity and Depth
* Bank Vegetation Protection
* Riparian Vegetative Zone Width

For each of the above habitat parameters, a rating of optimal, sub-optimal, marginal or poor was assigned based on the grading criteria developed for each parameter. In addition to the habitat ratings, data was collected on the stream's wetted width and pool depths at both runs and riffles at each representative site. Depth measurements were taken along the stream thalweg (main flow path). At representative sites, field crews also indicated whether the bottom sediments in the area were primarily silts, sands, gravel, cobble, boulders, or bedrock.

Representative site evaluations were done at approximately ½ mile intervals along the stream. Eighty-nine representative data sheets were filled out during this survey. Locations of representative sites are shown in Figure 14 and the data is presented in Appendix C.

Results indicate that the main stem of the Little Patuxent River is in fairly good condition, with average ratings of optimal and suboptimal in all categories except for embeddedness. However, many stream segments had a bottom substrate that consisted of gravel or cobble.

The three tributaries flowing through the community of Columbia, one of the most urban sections of the watershed, tended to have higher rating for conditions such as channel alteration and riparian vegetation indicating that the channel had not been altered significantly and most areas did have an adequate riparian buffer. Other parameters, including macroinvertebrate substrate, embeddedness, sediment deposition, and bank condition were all given either a poor or marginal rating. This indicates that erosion is a problem in these sections of the watershed. This is not surprising considering the large amount of impervious surface present in this highly developed portion of the watershed.

The remaining tributaries showed similar ratings in most habitat categories. Riparian vegetation received marginal ratings for most tributaries, as did macroinvertebrate substrate, embeddedness, and bank condition. These stream segments have stresses related to surrounding urban and agricultural land use. The main stem of the Little Patuxent appears to be the most stable and in the best condition overall.

Figure 14.

Pond Sites

This category was added at the request of Howard County to records information on the general condition of ponds observed during the survey. Since survey teams walk only along the stream corridor during the survey, any ponds located outside of the stream corridor, such as storm water management ponds inside of housing developments away from the stream would not be included in this survey. As part of the survey, field survey crew looked at whether or not eutrophic conditions were apparent and if routine maintenance was being performed on the embankment. This involved looking to see if the embankment is regularly mowed to prevent large trees from growing on it. Tree roots create weak spots that could lead to a possible breach. If large trees or animal burrows were present on the embankment, the field survey crews also record this information. However, due to a misunderstanding by the field crew on what constituted a poorly maintained pond site, all sites with trees growing anywhere around the pond were recorded as having trees on the embankment.

Two hundred twenty-nine pond sites were found during this survey, and their locations are shown in Figure 15. Of those, 167 were recorded as having trees or animal burrows on the embankment (Appendix C). It is not clear how many of those sites actually had trees or burrows on the embankment, or if they were mistakenly recorded. What was apparent from the photographs that were taken was most of the sites were adequately maintained storm water management ponds. However, it was not possible from the photographs to determine if all sites were adequately maintained, but had trees present on some pond embankments. Only 11 ponds were recorded as abandoned and 12 ponds were reported as un-maintained.

Figure 15.

DISCUSSION

One of the main objectives of the Little Patuxent Stream Corridor Assessment survey was to walk the stream network quickly in order to identify potential environmental problems in or along the edge of the stream. The survey was done in the Winter/Spring of 2000 and 88 miles of stream were walked. During the SCA survey, 1,090 potential environmental problem sites were identified. This included 529 pipe outfalls, 148 tree blockages, 119 sites with inadequately vegetated stream buffers, 103 bank erosion sites, 67 fish migration blockages, 45 channelized stream sections, 46 exposed pipe sites, 25 unusual condition sites, 7 trash dumping sites, and 1 active construction site near the stream.

Pipe outfalls were the most commonly reported potential problem during this survey. Though most were given a low to moderate severity rating, several pipes were discharging a fluid with an odor and color, and should be investigated further. Howard County's Illicit Discharge Program incorporates four programs to meet the objectives: prevention, detection, removal and compliance, and program management and reporting. Information from the present survey will be given to Howard County's Illicit Discharge Program for appropriate follow up.

Results of the Stream Corridor Assessment survey indicate that there are a number of stream segments that could be enhanced by restoration projects. As mentioned earlier, the Maryland Dept. of Natural Resources has formed a partnership with Howard County to develop a Watershed Restoration Action Strategy (WRAS) for the Howard County portion of the Little Patuxent River Watershed. Results from this survey will be combined with other information about the area to help establish priorities for the types and location of restoration projects that will be pursued in the Little Patuxent River Watershed in the future.

In preliminary discussions between Howard County and DNR representatives, restoring riparian areas by planting trees was identified as a County priority. Based on the early findings of the this survey, Howard County staff has already mapped buffer restoration opportunities using the County's computerized GIS and have begun prioritizing areas for more detailed assessment and restoration. Based on the County's early analysis one inadequate stream buffer site in Altholton Park has already been targeted. A tree planting was held in October 2000, and native trees and shrubs were planted along the stream edge. Employees of the Howard County Department of Public Works, Recreation and Parks, Howard County Forestry Board, Maryland DNR, area residents and a local Girl Scout troops spent the morning planting trees at the park. Approximately 2.5 acres were planted along the stream.

As mentioned earlier, the SCA survey has been developed by DNR's Watershed Restoration Division as a watershed management tool to both quickly assess the general condition of a stream corridor and to provide a list of potential environmental problems present within the corridor. One of the main goals of the SCA survey is to provide some basic information about each problem so that future restoration efforts can be better targeted. It is hoped that now that a SCA survey has been completed for the Little Patuxent watershed, a dialog can continue among resource managers on the goals and targets of future restoration efforts in the watershed. It is important to note that all of the problems identified in this survey can be

addressed through existing State and Local Government programs. The value of the survey is that it can help place the problems in a watershed context and can be used by a variety of resource managers to plan future restoration work.

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APPENDIX A

Data sheets used in the survey

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___
Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Inadequate Buffer

Buffer inadequate on: **L**eft **R**ight **B**oth (looking down stream)
Is stream unshaded? **L**eft **R**ight **B**oth (looking down stream)
Buffer width left: _____ ft **>100 ft.** **Buffer width right:** _____ ft **>100 ft.**
Length left: _____ ft **Length right:** _____ ft

Present land use left side: Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Present land use right side: Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Has a buffer recently been established: Yes **N**o

Are Livestock present: Yes **N**o **Type: C**attle, **H**orses, **P**igs, **O**ther:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Wetland Potential	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

(Good wetland potential = low slope, low bank height)

IB

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___
Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Inadequate Buffer

Buffer inadequate on: **L**eft **R**ight **B**oth (looking down stream)
Is stream unshaded? **L**eft **R**ight **B**oth (looking down stream)
Buffer width left: _____ ft **>100 ft** **Buffer width right:** _____ ft **>100 ft.**
Length left : _____ ft **Length right:** _____ ft

Present land use left side: Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Present land use right side: Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Has a buffer recently been established: Yes **N**o

Are Livestock present: **Y**es **N**o **Type:** **C**attle, **H**orses, **P**igs, **O**ther:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Wetland Potential	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

(Good wetland potential = low slope, low bank height)

CA

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Channel Alteration

Type: **Co**ncrete, **Ga**bion, **R**ip-**r**ap, **E**arth **C**hannel, **O**ther: _____

Bottom Width: _____ in **Length:** _____ ft

Does channel have perennial flow? **Y**es **N**o

Is sediment deposition occuring in the channel ? **Y**es **N**o

Is vegetation growing in the channel? **Y**es **N**o

Is it part of a road crossing? **No** **Ab**ove **Be**low **Bo**th

Channelized length above road crossing _____ ft
Channelized length below road crossing _____ ft

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

CA

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Channel Alteration

Type: **Co**ncrete, **Ga**bion, **R**ip-**r**ap, **E**arth **C**hannel, **O**ther: _____

Bottom Width: _____ in **Length:** _____ ft

Does channel have perennial flow? **Y**es **N**o

Is sediment deposition occuring in the channel ? **Y**es **N**o

Is vegetation growing in the channel? **Y**es **N**o

Is it part of a road crossing? **No** **Ab**ove **Be**low **Bo**th

Channelized length above road crossing _____ ft
Channelized length below road crossing _____ ft

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

IC

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

In or Near Stream Construction

Type of activity: **Ro**ad, **R**oad **C**rossing, **U**tility, **Lo**gging, **B**ank **S**tabilization, **Re**sidential Development, **In**dustrial Development, **O**ther: _____

Sediment Control: **A**dequate **I**nadequate **U**nknown

If inadequate, why? _____

Is stream bottom below site laden with excess sediment? **Y**es **N**o

Length of stream affected: _____ ft

Company doing construction: _____
Location _____

Severity Severe **1 2 3 4 5** Minor Unknown (**-1**)
Contact office as soon as possible: ( )

IC

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

In or Near Stream Construction

Type of activity: **Ro**ad, **R**oad **C**rossing, **U**tility, **Lo**gging, **B**ank **S**tabilization, **Re**sidential Development, **In**dustrial Development, **O**ther: _____

Sediment Control: **A**dequate **I**nadequate **U**nknown

If inadequate, why? _____

Is stream bottom below site laden with excess sediment? **Y**es **N**o

Length of stream affected: _____ ft

Company doing construction: _____
Location _____

Severity Severe **1 2 3 4 5** Minor Unknown (**-1**)
Contact office as soon as possible: ( )

ES

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Erosion Site

Type: **D**owncutting **W**idening **H**eadcutting

Cause: Bend at steep slope, **P**ipe **O**utfall, Below **Ch**annelization, Below **R**oad **C**rossing, **Li**vestock, **L**and **U**se **C**hange Upstream, **O**ther: _____

Length: _____ ft **Average exposed bank height:** _____ ft

Present Land Use Left Side (looking downstream): Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Present Land Use Right Side (looking downstream): Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Threat to Infrastructure?: **Y**es **N**o **Describe**:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

ES

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Erosion Site

Type: **D**owncutting **W**idening **H**eadcutting

Cause: Bend at steep slope, **P**ipe **O**utfall, Below **Ch**annelization, Below **R**oad **C**rossing, **Li**vestock, **Na**tural, **O**ther: _____

Length: _____ ft **Average exposed bank height:** _____ ft

Present Land Use Left Side (looking downstream): Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Present Land Use Right Side (looking downstream): Crop field, **Pa**sture, **La**wn, **P**a**v**ed, **Sh**rubs & Small Trees, **Fo**rest, **M**ultiflora **R**ose, **O**ther _____

Threat to Infrastructure?: **Y**es **N**o **Describe:** _____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

EP

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Exposed Pipe

Pipe is: Exposed across bottom of stream, Exposed along stream bank, Exposed manhole, Above stream, Other:_____

Type of Pipe: Concrete, Smooth Metal, Corrugated Metal, Plastic, Terra Cotta, Other:_____

Pipe Diameter: _____ in. **Length exposed:** _____ ft

Purpose of Pipe: Sewage, Water Supply, Stormwater, Unknown, Other:_____

Evidence of Discharge?: Yes No

Color: Clear, medium brown, dark brown, green brown, yellow brown, green, other:_____
Odor: Sewage, oily, musky, fishy, rotton eggs, chlorine, none, other:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

EP

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Exposed Pipe

Pipe is: Exposed across bottom of stream, Exposed along stream bank, Exposed manhole, Above Stream, Other:_____

Type of Pipe: Concrete, Smooth Metal, Corrugated Metal, Plastic, Terra Cotta, Other:_____

Pipe Diameter: _____ in. **Length exposed:** _____ ft

Purpose of Pipe: Sewage, Water Supply, Stormwater, Unknown, Other:_____

Evidence of Discharge?: Yes No

Color: Clear, medium brown, dark brown, green brown, yellow brown, green, other:_____
Odor: Sewage, oily, musky, fishy, rotton eggs, chlorine, none, other:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

FB

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Fish Barrier

Fish Blockage: **To**tal, **Pa**rtial, **Te**mporary, **Un**known

Type of Barrier: **Da**m, **R**oad **C**rossing, **P**ipe **C**rossing, **N**atural **F**alls, **B**eaver **D**am, **Ch**annelized, Instream **Po**nd, **D**ebris **D**am, **Ot**her

Blockage because: Too **hi**gh Too **sh**allow Too **fa**st

Water drop: _____ inches (if too high)

Water depth: _____ inches (if too shallow)

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

FB

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Fish Barrier

Fish Blockage: **To**tal, **Pa**rtial, **Te**mporary, **Un**known

Type of Barrier: **Da**m, **R**oad **C**rossing, **P**ipe **C**rossing, **N**atural **F**alls, **B**eaver **D**am, **Ch**annelized, Instream **Po**nd, **D**ebris **D**am, **Ot**her

Blockage because: Too **hi**gh Too **sh**allow Too **fa**st

Water drop: _____ inches (if too high)

Water depth: _____ inches (if too shallow)

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

PO

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Pipe Outfall

Type of Outfall: Stormwater, Sewage Overflow, Industrial, Pumping Station, Agricultural, Other:_____

Type of Pipe: Earth Channel, Concrete Channel, Concrete Pipe, Smooth Metal Pipe, Corrugated Metal, Plastic, Other:_____

Location (facing downstream): left bank, right bank, head of stream, Other_____

Pipe Diameter: _____ in. **Channel width:** _____ ft

Purpose of Pipe: Sewage, Water Supply, Stormwater, Unknown, Other:_____

Evidence of Discharge?: Yes No

Color: Clear, medium brown, dark brown, green brown, yellow brown, green, other:_____
Odor: Sewage, oily, musky, fishy, rotton eggs, chlorine, none, other:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

PO

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Pipe Outfall

Type of Outfall: Stormwater, Sewage Overflow, Industrial, Pumping Station, Agricultural, Head of Stream, Other:_____

Type of Pipe: Earth Channel, Concrete Channel, Concrete Pipe, Smooth Metal Pipe, Corrugated Metal, Plastic, Other:_____

Location (facing downstream): left bank, right bank, head of stream, Other_____

Pipe Diameter: _____ in. **Channel width:** _____ ft

Purpose of Pipe: Sewage, Water Supply, Stormwater, Unknown, Other:_____

Evidence of Discharge?: Yes No

Color: Clear, medium brown, dark brown, green brown, yellow brown, green, other:_____
Odor: Sewage, oily, musky, fishy, rotton eggs, chlorine, none, other:_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

RE

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photos:** _____ **Survey:** _____
M M D D Y Y

Representative Site

	Optimal	Suboptimal	Marginal	Poor
Macroinvertebrate Substrata				
Embeddedness				
Shelter for fish				
Channel Alteration				
Sediment Deposition				
Velocity and Depth				
Channel Flow				
Bank Vegetation				
Bank Condition				
Riparian Vegetation				

Wetted width: Riffles: _____ in. Runs: _____ in. Pools: _____ in.

Thalweg depth: Riffles: _____ in. Runs: _____ in. Pools: _____ in
Bottom type: Silts, Sands, Gravel, Cobble, Boulder, Bedrock

RE

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photos:** _____ **Survey:** _____
M M D D Y Y

Representative Site

	Optimal	Suboptimal	Marginal	Poor
Macroinvertebrate Substrata				
Embeddedness				
Shelter for fish				
Channel Alteration				
Sediment Deposition				
Velocity and Depth				
Channel Flow				
Bank Vegetation				
Bank Condition				
Riparian Vegetation				

Wetted width: Riffles: _____ in. Runs: _____ in. Pools: _____ in.
Thalweg depth: Riffles: _____ in. Runs: _____ in. Pools: _____ in
Bottom type: Silts, Sands, Gravel, Cobble, Boulder, Bedrock

TD

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Trash Dumping

Type of trash: **Re**sidential, **In**dustrial, **Y**ard **W**aste, **F**loatables, **Ti**res, **Co**nstruction, **O**ther: _____

Amount of trash: _____ pick-up truck loads

Other measure _____

Is trash confined to? **S**ingle site, **L**arge Area

Possible cleanup site for volunteers? **Y**es **N**o

Land Ownership: **Pu**blic **Pr**ivate **Un**known

If public, name: _____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

TD

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Trash Dumping

Type of trash: **Re**sidential, **In**dustrial, **Y**ard **W**aste, **F**loatables, **Ti**res, **Co**nstruction, **O**ther: _____

Amount of trash: _____ pick-up truck loads

Other measure _____

Is trash confined to? **S**ingle site, **L**arge Area

Possible cleanup site for volunteers? **Y**es **N**o

Land Ownership: **Pu**blic **Pr**ivate **Un**known

If public, name: _____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

UC

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Unusual Condition or Comment

Type: (circle one) **Unusual Condition** **Comment**

Describe: Odor, **Sc**um, Excessive **Al**gae, **W**ater **C**olor/Clarity, **R**ed **F**lock, **S**ewage **D**ischarge, **Oi**l

_____
_____
_____

Potential Cause: _____
_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

UC

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date: __ __ / __ __ /__ __ **Photo:** _____ **Survey:** _____
M M D D Y Y

Unusual Condition or Comment

Type: (circle one) **Unusual Condition** **Comment**

Describe: Odor, **Sc**um, Excessive **Al**gae, **W**ater **C**olor/Clarity, **R**ed **F**lock, **S**ewage **D**ischarge, **Oi**l

_____
_____
_____

Potential Cause: _____
_____

Severity	Severe	**1**	**2**	**3**	**4**	**5**	Minor	Unknown (**-1**)
Correctability	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)
Access	Best	**1**	**2**	**3**	**4**	**5**	Worst	Unknown (**-1**)

PS

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date:_____/_____/_____ **Photo:** _____ **Survey:**_____

M M D D Y Y

Pond Site

Type of Pond: Wet Dry Wetlands Other:_____

Primary Use of Pond: Stormwater, Irrigation, Wildlife, Farm, Recreation, Unknown
Other:_____

Is the pond shown on your map? **Y**es **N**o
(If not, draw it in)

Is the pond well maintained? **Y**es **N**o **A**bandoned

Maintenance needed: _____
_____

Does pond show signs of eutrophication (green water)? **Y**es **N**o **D**ry **T**oo Cold

Are there trees or animal burrows on the embankment? **Y**es **N**o **U**nknown

---

PS

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___

Date:_____/_____/_____ **Photo:** _____ **Survey:**_____

M M D D Y Y

Pond Site

Type of Pond: Wet Dry Wetlands Other:_____

Primary Use of Pond: Stormwater, Irrigation, Wildlife, Farm, Recreation, Unknown
Other:_____

Is the pond shown on your map? **Y**es **N**o
(If not, draw it in)

Is the pond well maintained? **Y**es **N**o **A**bandoned

Maintenance needed: _____
_____

Does pond show signs of eutrophication (green water)? **Y**es **N**o **D**ry **T**oo Cold

TB

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___
Date:_____/_____/_____ **Photo:** _____ **Survey:**_____
M M D D Y Y

TREE BLOCKAGE

EXTENT: Complete More than half Less than half Minor **SEVERITY:** Bad Moderate Minor

TREE SIZE: Large Medium Small **LOCATION WITHIN CHANNEL**: Wholly Partially

ORIENTATION TO FLOW: Perpendicular Angle Parallel **COMPOSITION OF BLOCKAGE:** Branches Trunk Rootball

DEBRIS COLLECTING: Lots Some None

FLOW DIVERSION CAUSES
IMPACTS TO: Bed One Bank Both Banks Other No Impact

NEAREST DOWNSTREAM BRIDGE/CULVERT: Within 250 ft Within 1000ft Within ½ mile More than ½ mile

SURROUNDING LAND USE: Fully Developed Mostly Developed Partially Developed Natural

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TB

Map: ___ ___ ___ **Team:** ___ **Site:** ___ ___
Date:_____/_____/_____ **Photo:** _____ **Survey:**_____
M M D D Y Y

TREE BLOCKAGE

EXTENT: Complete More than half Less than half Minor **SEVERITY:** Bad Moderate Minor

TREE SIZE: Large Medium Small **LOCATION WITHIN CHANNEL**: Wholly Partially

ORIENTATION TO FLOW: Perpendicular Angle Parallel **COMPOSITION OF BLOCKAGE:** Branches Trunk Rootball

DEBRIS COLLECTING: Lots Some None

FLOW DIVERSION CAUSES
IMPACTS TO: Bed One Bank Both Banks Other No Impact

NEAREST DOWNSTREAM BRIDGE/CULVERT: Within 250 ft Within 1000ft Within ½ mile More than ½ mile

SURROUNDING LAND USE: Fully Mostly Partially Natural

APPENDIX B

Listing of sites by site number

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP001110	Pond Site				76:47:46	39:07:24
LP001111	Channel Alteration	3	5	1	76:47:45	39:07:27
LP001112	Pond Site				76:48:05	39:07:20
LP002109	Pond Site				76:47:50	39:07:39
LP002113	Pond Site				76:47:59	39:07:42
LP008301	Pond Site				76:48:01	39:14:11
LP008303	Trash Dumping	3	2	2	76:47:59	39:14:09
LP009103	Channel Alteration	4	3	1	76:48:41	39:07:28
LP009105	Channel Alteration	3	5	1	76:48:42	39:07:27
LP009106	Inadequate Buffer	2	2	1	76:48:31	39:07:24
LP009107	Representative Site				76:48:42	39:07:32
LP009121	Inadequate Buffer	3	1	1	76:48:43	39:07:27
LP010110	Tree Blockage				76:48:30	39:07:55
LP010112	Representative Site				76:48:29	39:07:55
LP010113	Tree Blockage				76:48:27	39:07:59
LP010113	Erosion	4	3	2	76:48:26	39:07:59
LP011101	Inadequate Buffer	4	4	1	76:48:02	39:07:55
LP011102	Fish Blockage	5	4	1	76:48:17	39:08:09
LP011102	Pond Site				76:48:18	39:08:09
LP011103	Fish Blockage	4	5	1	76:48:18	39:08:09
LP011114	Tree Blockage				76:48:26	39:08:00
LP011114	Inadequate Buffer	2	4	1	76:48:25	39:08:06
LP011115	Erosion	4	3	3	76:48:25	39:08:00
LP011115	Inadequate Buffer	3	4	1	76:48:22	39:08:02
LP011116	Inadequate Buffer	4	2	1	76:48:47	39:08:09
LP011116	Fish Blockage	5	1	1	76:48:22	39:08:09
LP012104	Pond Site				76:48:30	39:08:27
LP012104	Fish Blockage	4	4	1	76:48:29	39:08:27
LP012107	Pond Site				76:48:17	39:08:36
LP012108	Pond Site				76:48:07	39:08:25
LP019301	Pond Site				76:48:45	39:12:50
LP019302	Channel Alteration	5	2	1	76:48:41	39:12:53
LP019302	Inadequate Buffer	4	1	1	76:48:41	39:12:53
LP019305	Pond Site				76:48:37	39:13:00
LP019306	Pond Site				76:48:48	39:12:59
LP020301	Pond Site				76:48:38	39:13:11
LP021302	Exposed Pipe	5	3	2	76:48:27	39:13:39
LP021304	Representative Site				76:48:24	39:13:40
LP021305	Pond Site				76:48:22	39:13:43
LP021307	Pond Site				76:48:21	39:13:31
LP022301	Inadequate Buffer	3	1	1	76:48:16	39:14:00
LP022303	Channel Alteration	4	3	2	76:48:17	39:13:54
LP022303	Inadequate Buffer	3	1	1	76:48:11	39:13:58
LP022305	Erosion	4	2	2	76:48:16	39:13:49
LP022306	Inadequate Buffer	3	2	2	76:48:13	39:13:48
LP022307	Inadequate Buffer	4	2	2	76:48:18	39:13:48
LP022333	Tree Blockage				76:48:46	39:14:05
LP022334	Erosion	5	2	2	76:48:46	39:14:08
LP023301	Exposed Pipe	3	5	2	76:48:46	39:14:20
LP023302	Exposed Pipe	4	4	2	76:48:43	39:14:21
LP023303	Erosion	5	2	1	76:48:42	39:14:20

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP023304	Tree Blockage				76:48:41	39:14:17
LP023306	Pond Site				76:48:38	39:14:19
LP023307	Pond Site				76:48:39	39:14:21
LP023310	Tree Blockage				76:48:30	39:14:16
LP023311	Erosion	3	3	1	76:48:25	39:14:15
LP023311	Inadequate Buffer	4	1	1	76:48:25	39:14:15
LP023313	Pond Site				76:48:20	39:14:11
LP023314	Inadequate Buffer	4	1	1	76:48:19	39:14:11
LP023315	Representative Site				76:48:18	39:14:10
LP023316	Channel Alteration	4	3	3	76:48:19	39:14:11
LP024301	Pond Site				76:48:23	39:14:45
LP024303	Pond Site				76:48:23	39:14:36
LP024304	Pond Site				76:48:32	39:14:38
LP024307	Pond Site				76:48:45	39:14:41
LP024308	Pond Site				76:48:47	39:14:41
LP024311	Pond Site				76:48:24	39:14:52
LP024312	Pond Site				76:48:22	39:14:50
LP025301	Pond Site				76:48:33	39:14:56
LP026102	Erosion	4	4	4	76:48:57	39:07:26
LP026103	Inadequate Buffer	4	4	1	76:48:58	39:07:29
LP027101	Representative Site				76:48:57	39:07:48
LP028304	Pond Site				76:49:17	39:08:09
LP028305	Pond Site				76:49:10	39:08:01
LP028306	Representative Site				76:49:07	39:08:05
LP028307	Exposed Pipe	3	4	3	76:49:04	39:08:05
LP028309	Representative Site				76:49:00	39:08:04
LP028312	Pond Site				76:48:55	39:08:05
LP029301	Erosion	4	3	2	76:48:49	39:08:31
LP029302	Tree Blockage				76:48:53	39:08:35
LP029303	Representative Site				76:48:54	39:08:37
LP029304	Erosion	2	4	3	76:48:56	39:08:38
LP029304	Tree Blockage				76:48:58	39:08:37
LP029305	Tree Blockage				76:48:57	39:08:40
LP029307	Representative Site				76:49:02	39:08:43
LP029308	Tree Blockage				76:49:05	39:08:43
LP029309	Tree Blockage				76:49:06	39:08:42
LP029315	Erosion	4	3	2	76:49:05	39:08:42
LP030302	Inadequate Buffer	4	5	1	76:49:21	39:08:49
LP030302	Channel Alteration	4	5	1	76:49:20	39:08:47
LP030311	Tree Blockage				76:49:00	39:08:49
LP030313	Exposed Pipe	4	3	2	76:48:58	39:08:52
LP030313	Fish Blockage	3	3	2	76:48:58	39:08:52
LP030314	Representative Site				76:48:58	39:08:54
LP030315	Erosion	4	3	1	76:48:59	39:08:55
LP030317	Exposed Pipe	4	2	1	76:49:00	39:09:02
LP030318	Tree Blockage				76:49:01	39:09:02
LP030329	Inadequate Buffer	4	1	1	76:49:27	39:08:49
LP031303	Pond Site				76:49:17	39:09:08
LP031305	Pond Site				76:49:18	39:09:20
LP031319	Tree Blockage				76:49:06	39:09:09
LP031320	Trash Dumping	2	2	1	76:49:05	39:09:10

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP031321	Tree Blockage				76:49:06	39:09:11
LP031322	Inadequate Buffer	5	1	1	76:49:05	39:09:10
LP031323	Tree Blockage				76:49:08	39:09:12
LP031324	Erosion	5	1	1	76:49:09	39:09:15
LP031325	Representative Site				76:49:09	39:09:17
LP031326	Fish Blockage	3	5	2	76:49:08	39:09:19
LP031326	Exposed Pipe	4	2	2	76:49:08	39:09:19
LP031327	Tree Blockage				76:49:09	39:09:20
LP031328	Tree Blockage				76:49:14	39:09:24
LP032207	Pond Site				76:49:17	39:09:40
LP032213	Representative Site				76:49:07	39:09:43
LP032214	Inadequate Buffer	3	3	2	76:49:07	39:09:30
LP033206	Erosion	5	3	2	76:49:14	39:10:06
LP033206	Tree Blockage				76:49:27	39:09:50
LP033207	Fish Blockage	5	2	3	76:49:12	39:10:04
LP033208	Tree Blockage				76:49:11	39:10:01
LP033209	Representative Site				76:49:09	39:10:01
LP033210	Tree Blockage				76:49:09	39:10:00
LP033211	Tree Blockage				76:49:09	39:09:58
LP033211	Fish Blockage	5	4	4	76:49:08	39:09:59
LP033212	Tree Blockage				76:49:09	39:09:57
LP034204	Fish Blockage	5	1	3	76:49:29	39:10:17
LP034204	Erosion	4	3	3	76:49:28	39:10:16
LP034205	Fish Blockage	5	3	4	76:49:25	39:10:15
LP034205	Erosion	4	3	3	76:49:25	39:10:14
LP037303	Erosion	3	2	2	76:49:21	39:11:24
LP037305	Representative Site				76:49:19	39:11:27
LP037306	Tree Blockage				76:49:21	39:11:28
LP037306	Fish Blockage	5	1	2	76:49:20	39:11:28
LP037307	Erosion	3	2	2	76:49:19	39:11:29
LP037308	Erosion	3	3	4	76:49:24	39:11:43
LP037309	Pond Site				76:49:10	39:11:23
LP038301	Tree Blockage				76:49:23	39:11:43
LP038302	Comment				76:49:23	39:11:43
LP038303	Pond Site				76:49:21	39:11:43
LP038305	Pond Site				76:49:14	39:11:42
LP038306	Tree Blockage				76:49:25	39:11:40
LP038307	Tree Blockage				76:49:25	39:11:41
LP038308	Pond Site				76:49:24	39:11:43
LP038311	Inadequate Buffer	5	1	1	76:49:23	39:11:48
LP038312	Representative Site				76:49:23	39:11:48
LP038313	Pond Site				76:49:23	39:11:49
LP038314	Pond Site				76:49:29	39:11:52
LP038315	Tree Blockage				76:49:24	39:11:53
LP038317	Tree Blockage				76:49:22	39:11:56
LP038318	Inadequate Buffer	4	1	2	76:49:21	39:11:57
LP038319	Erosion	4	3	2	76:49:24	39:11:59
LP038322	Pond Site				76:49:02	39:11:58
LP039301	Unusual Condition	4	4	2	76:49:22	39:11:55
LP039303	Exposed Pipe	1	4	2	76:49:29	39:12:03
LP039305	Inadequate Buffer	5	1	1	76:49:22	39:12:10

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP039307	Channel Alteration	4	4	3	76:49:18	39:12:08
LP039308	Erosion	3	3	1	76:49:17	39:12:07
LP039309	Tree Blockage				76:49:18	39:12:03
LP039310	Erosion	3	3	1	76:49:20	39:12:01
LP039311	Channel Alteration	5	3	1	76:49:21	39:11:59
LP039312	Representative Site				76:49:21	39:11:59
LP039314	Erosion	1	4	1	76:49:09	39:12:11
LP039314	Exposed Pipe	5	4	1	76:49:09	39:12:11
LP039315	Exposed Pipe	3	4	3	76:49:09	39:12:12
LP040302	Representative Site				76:49:09	39:12:30
LP040304	Pond Site				76:48:54	39:12:31
LP040305	Pond Site				76:48:52	39:12:34
LP040306	Tree Blockage				76:49:11	39:12:33
LP040307	Inadequate Buffer	3	1	1	76:49:10	39:12:35
LP040310	Erosion	5	3	2	76:49:15	39:12:22
LP040311	Exposed Pipe	4	2	2	76:49:15	39:12:22
LP040312	Channel Alteration	4	3	2	76:49:16	39:12:22
LP040313	Exposed Pipe	4	2	2	76:49:16	39:12:23
LP040313	Fish Blockage	3	1	2	76:49:16	39:12:23
LP040314	Tree Blockage				76:49:21	39:12:23
LP040315	Representative Site				76:49:21	39:12:25
LP040316	Erosion	3	3	3	76:49:25	39:12:29
LP040321	Inadequate Buffer	3	1	1	76:49:30	39:12:24
LP040322	Erosion	2	3	2	76:49:29	39:12:24
LP040326	Tree Blockage				76:49:11	39:12:39
LP040327	Tree Blockage				76:49:05	39:12:41
LP041302	Fish Blockage	3	3	1	76:49:21	39:12:46
LP041303	Representative Site				76:49:19	39:12:45
LP041304	Inadequate Buffer	3	1	1	76:49:19	39:12:45
LP041307	Fish Blockage	3	2	1	76:49:14	39:12:48
LP041307	Channel Alteration	3	4	1	76:49:14	39:12:47
LP041307	Erosion	4	3	2	76:49:15	39:12:47
LP041309	Pond Site				76:49:12	39:12:55
LP041311	Pond Site				76:49:29	39:12:56
LP041312	Exposed Pipe	2	3	2	76:49:29	39:12:50
LP041313	Erosion	4	2	2	76:49:26	39:12:48
LP041313	Inadequate Buffer	4	1	2	76:48:53	39:12:47
LP041315	Fish Blockage	3	3	2	76:49:04	39:12:44
LP041316	Channel Alteration	4	3	3	76:49:01	39:12:43
LP041318	Tree Blockage				76:48:59	39:12:45
LP041320	Representative Site				76:48:55	39:12:47
LP041321	Erosion	3	3	2	76:48:53	39:12:47
LP041321	Inadequate Buffer	3	1	2	76:49:26	39:12:48
LP041322	Tree Blockage				76:48:56	39:12:46
LP041325	Pond Site				76:48:51	39:12:48
LP041326	Channel Alteration	4	3	3	76:49:08	39:13:04
LP041326	Fish Blockage	4	2	3	76:49:09	39:13:04
LP042301	Tree Blockage				76:49:04	39:13:10
LP042304	Channel Alteration	3	3	3	76:48:53	39:13:16
LP042304	Fish Blockage	4	4	3	76:48:54	39:13:16
LP042304	Tree Blockage				76:48:54	39:13:16

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP042305	Fish Blockage	4	3	3	76:48:54	39:13:17
LP042305	Channel Alteration	3	4	3	76:48:54	39:13:16
LP042306	Erosion	2	3	3	76:48:54	39:13:16
LP042308	Representative Site				76:48:54	39:13:19
LP042310	Channel Alteration	3	3	1	76:48:52	39:13:27
LP042310	Inadequate Buffer	3	1	1	76:48:52	39:13:27
LP042312	Representative Site				76:49:03	39:13:09
LP042317	Tree Blockage				76:49:10	39:13:05
LP042323	Erosion	4	3	2	76:49:20	39:13:21
LP042328	Exposed Pipe	4	4	2	76:49:28	39:13:19
LP042329	Tree Blockage				76:49:27	39:13:23
LP043304	Pond Site				76:49:13	39:13:31
LP043308	Trash Dumping	5	1	1	76:49:17	39:13:46
LP043309	Pond Site				76:49:18	39:13:44
LP043310	Tree Blockage				76:49:17	39:13:47
LP043311	Pond Site				76:49:09	39:13:43
LP043312	Pond Site				76:48:53	39:13:42
LP044309	Tree Blockage				76:49:19	39:13:48
LP044310	Tree Blockage				76:49:22	39:13:48
LP044312	Pond Site				76:49:27	39:13:48
LP044315	Fish Blockage	5	4	1	76:49:02	39:13:49
LP044331	Pond Site				76:49:24	39:14:01
LP044333	Pond Site				76:49:30	39:14:01
LP045301	Pond Site				76:49:02	39:14:10
LP046301	Pond Site				76:48:50	39:14:44
LP046303	Representative Site				76:48:59	39:14:33
LP046304	Erosion	4	2	2	76:48:58	39:14:33
LP046305	Pond Site				76:48:58	39:14:40
LP046307	Pond Site				76:49:11	39:14:38
LP047302	Pond Site				76:49:10	39:14:54
LP047303	Pond Site				76:49:15	39:14:54
LP048201	Pond Site				76:49:26	39:15:17
LP048202	Erosion	3	3	2	76:49:32	39:15:17
LP049109	Representative Site				76:49:33	39:08:06
LP050108	Representative Site				76:49:55	39:08:22
LP051107	Representative Site				76:50:00	39:08:47
LP051330	Pond Site				76:49:34	39:08:58
LP052104	Representative Site				76:49:57	39:09:09
LP053307	Representative Site				76:50:06	39:09:36
LP053308	Channel Alteration	4	4	1	76:49:43	39:09:43
LP053308	Inadequate Buffer	2	1	1	76:49:43	39:09:43
LP053310	Representative Site				76:49:31	39:09:33
LP054220	Representative Site				76:50:09	39:10:10
LP054221	Inadequate Buffer	4	3	2	76:50:06	39:09:50
LP054306	Channel Alteration	4	4	1	76:50:06	39:09:50
LP054306	Inadequate Buffer	3	3	1	76:50:10	39:10:05
LP054311	Pond Site				76:49:45	39:09:51
LP055201	Erosion	4	3	3	76:49:37	39:10:23
LP055202	Tree Blockage				76:49:37	39:10:22
LP055203	Representative Site				76:49:34	39:10:19
LP055215	Pond Site				76:49:54	39:10:16

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP055215	Inadequate Buffer	1	3	3	76:50:00	39:10:16
LP055216	Fish Blockage	5	3	2	76:50:01	39:10:24
LP055217	Erosion	3	4	2	76:50:04	39:10:20
LP055218	Tree Blockage				76:50:05	39:10:15
LP055219	Fish Blockage	5	3	2	76:50:04	39:10:15
LP055219	Tree Blockage				76:50:08	39:10:12
LP056301	Comment				76:49:54	39:10:40
LP056302	Trash Dumping	4	1	1	76:49:54	39:10:41
LP056304	Erosion	5	2	1	76:49:57	39:10:47
LP056306	Tree Blockage				76:50:00	39:10:48
LP056308	Representative Site				76:49:58	39:10:53
LP056309	Erosion	3	3	2	76:49:57	39:10:58
LP056310	Erosion	3	3	2	76:49:57	39:10:55
LP056320	Inadequate Buffer	3	1	2	76:49:44	39:10:52
LP056340	Pond Site				76:50:13	39:10:40
LP057312	Inadequate Buffer	5	3	1	76:49:55	39:11:01
LP057313	Channel Alteration	5	1	2	76:49:55	39:11:01
LP057314	Pond Site				76:49:58	39:11:05
LP057315	Representative Site				76:49:55	39:11:13
LP057323	Channel Alteration	3	4	3	76:49:40	39:11:08
LP057324	Inadequate Buffer	3	1	2	76:49:41	39:11:09
LP057328	Pond Site				76:49:45	39:11:14
LP057330	Unusual Condition	4	4	1	76:49:55	39:11:15
LP057331	Tree Blockage				76:49:56	39:11:13
LP057333	Tree Blockage				76:49:53	39:11:15
LP057334	Erosion	5	2	1	76:49:51	39:11:15
LP057335	Representative Site				76:49:53	39:11:01
LP057338	Pond Site				76:50:00	39:11:22
LP058301	Representative Site				76:49:41	39:11:27
LP058318	Inadequate Buffer	5	1	1	76:50:06	39:11:36
LP058319	Tree Blockage				76:50:07	39:11:37
LP058321	Fish Blockage	4	3	2	76:50:07	39:11:34
LP058322	Erosion	4	4	2	76:50:07	39:11:34
LP058324	Erosion	4	3	1	76:50:05	39:11:27
LP058329	Erosion	3	3	3	76:49:41	39:11:19
LP058330	Tree Blockage				76:49:43	39:11:18
LP058331	Representative Site				76:49:41	39:11:19
LP058332	Tree Blockage				76:49:41	39:11:21
LP058334	Tree Blockage				76:49:40	39:11:22
LP058335	Pond Site				76:49:56	39:11:16
LP058336	Fish Blockage	4	4	1	76:49:57	39:11:21
LP058339	Pond Site				76:49:58	39:11:16
LP059304	Pond Site				76:49:47	39:11:43
LP059304	Fish Blockage	5	5	1	76:49:45	39:11:43
LP059305	Inadequate Buffer	3	1	1	76:49:50	39:11:47
LP059308	Pond Site				76:49:50	39:11:58
LP059309	Channel Alteration	3	5	3	76:49:48	39:11:56
LP059309	Fish Blockage	4	4	2	76:49:48	39:11:56
LP059310	Pond Site				76:49:42	39:11:54
LP059311	Fish Blockage	4	4	2	76:49:38	39:11:54
LP059311	Channel Alteration	3	4	2	76:49:38	39:11:54

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP059312	Pond Site				76:49:33	39:11:53
LP059315	Tree Blockage				76:50:09	39:11:39
LP059316	Erosion	3	3	2	76:50:08	39:11:39
LP059317	Fish Blockage	4	4	2	76:50:06	39:11:38
LP059317	Tree Blockage				76:50:07	39:11:38
LP059317	Channel Alteration	4	3	2	76:50:06	39:11:38
LP060220	Tree Blockage				76:50:13	39:12:19
LP060221	Representative Site				76:50:11	39:12:20
LP060316	Fish Blockage	4	3	2	76:49:52	39:12:06
LP060316	Channel Alteration	3	3	2	76:49:52	39:12:06
LP060317	Pond Site				76:49:54	39:12:07
LP060318	Pond Site				76:49:37	39:12:10
LP060319	Trash Dumping	4	1	1	76:49:39	39:12:12
LP060319	Pond Site				76:49:41	39:12:12
LP060320	Pond Site				76:49:52	39:12:16
LP061214	Inadequate Buffer	2	2	2	76:50:07	39:12:24
LP061321	Pond Site				76:49:40	39:12:28
LP061322	Pond Site				76:49:42	39:12:27
LP061327	Pond Site				76:49:39	39:12:24
LP062301	Pond Site				76:49:34	39:12:53
LP063207	Representative Site				76:50:11	39:13:07
LP063302	Erosion	3	3	2	76:49:35	39:13:20
LP063304	Exposed Pipe	3	4	3	76:49:33	39:13:19
LP063306	Exposed Pipe	3	4	3	76:49:36	39:13:20
LP063307	Exposed Pipe	4	4	3	76:49:37	39:13:20
LP063309	Tree Blockage				76:49:46	39:13:24
LP064303	Pond Site				76:50:04	39:13:36
LP064305	Exposed Pipe	1	4	3	76:49:53	39:13:42
LP065303	Pond Site				76:49:49	39:14:05
LP065305	Pond Site				76:49:46	39:14:06
LP065306	Tree Blockage				76:49:42	39:14:05
LP065310	Pond Site				76:49:40	39:14:00
LP065311	Tree Blockage				76:49:34	39:13:57
LP066303	Unusual Condition	4	4	2	76:49:47	39:14:10
LP066304	Pond Site				76:49:50	39:14:11
LP067201	Inadequate Buffer	3	2	3	76:50:09	39:14:34
LP067207	Pond Site				76:50:11	39:14:38
LP067208	Pond Site				76:50:01	39:14:41
LP067216	Tree Blockage				76:49:50	39:14:52
LP067219	Pond Site				76:49:57	39:14:49
LP067301	Pond Site				76:49:33	39:14:48
LP067302	Pond Site				76:49:34	39:14:51
LP067303	Exposed Pipe	4	2	2	76:49:35	39:14:49
LP067303	Unusual Condition	3	4	2	76:49:35	39:14:49
LP067306	Pond Site				76:49:43	39:14:49
LP067307	Pond Site				76:49:41	39:14:51
LP068205	Pond Site				76:49:46	39:15:13
LP068209	Representative Site				76:50:02	39:15:10
LP068210	Inadequate Buffer	4	3	2	76:50:07	39:14:56
LP068215	Pond Site				76:49:41	39:15:06
LP068217	Pond Site				76:49:52	39:14:53

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP068218	Erosion	4	3	2	76:49:58	39:14:53
LP069203	Pond Site				76:49:33	39:15:16
LP069216	Channel Alteration	3	3	3	76:49:53	39:15:32
LP069218	Tree Blockage				76:50:05	39:15:21
LP069219	Tree Blockage				76:50:05	39:15:28
LP069220	Unusual Condition	2	3	1	76:50:07	39:15:34
LP070221	Inadequate Buffer	3	3	2	76:50:10	39:15:39
LP070223	Representative Site				76:50:13	39:15:42
LP072235	Inadequate Buffer	4	2	2	76:50:13	39:16:20
LP072256	Pond Site				76:50:03	39:16:21
LP073216	Pond Site				76:49:56	39:16:57
LP073217	Pond Site				76:49:58	39:16:58
LP073218	Instream Construction	3			76:49:40	39:16:47
LP074209	Erosion	3	3	2	76:50:07	39:17:09
LP074212	Channel Alteration	3	3	1	76:49:56	39:17:01
LP074212	Inadequate Buffer	1	4	1	76:50:00	39:17:07
LP074214	Pond Site				76:49:50	39:17:11
LP074215	Channel Alteration	3	3	3	76:49:54	39:17:06
LP075203	Pond Site				76:50:13	39:17:34
LP075204	Erosion	2	2	2	76:50:11	39:17:25
LP075204	Tree Blockage				76:50:13	39:17:31
LP075208	Inadequate Buffer	2	3	2	76:50:12	39:17:31
LP079307	Representative Site				76:50:38	39:09:44
LP080201	Pond Site				76:50:21	39:10:03
LP080203	Pond Site				76:50:32	39:10:02
LP080204	Fish Blockage	4	3	3	76:50:35	39:09:55
LP080204	Pond Site				76:50:37	39:09:53
LP080205	Pond Site				76:50:16	39:10:06
LP080208	Erosion	4	3	2	76:50:55	39:10:00
LP080208	Tree Blockage				76:50:58	39:10:01
LP080209	Representative Site				76:50:56	39:10:01
LP080210	Tree Blockage				76:50:47	39:10:00
LP080222	Erosion	4	4	4	76:50:14	39:10:02
LP080223	Tree Blockage				76:50:17	39:10:00
LP080223	Inadequate Buffer	4	2	2	76:50:16	39:10:01
LP080224	Representative Site				76:50:16	39:10:01
LP080225	Fish Blockage	3	5	2	76:50:22	39:09:59
LP080226	Unusual Condition	4	4	2	76:50:22	39:09:58
LP080302	Representative Site				76:50:30	39:09:55
LP080304	Pond Site				76:50:21	39:09:53
LP081212	Unusual Condition	3	4	2	76:50:39	39:10:12
LP081213	Pond Site				76:50:39	39:10:18
LP081214	Fish Blockage	5	5	1	76:50:35	39:10:19
LP081214	Pond Site				76:50:35	39:10:19
LP081214	Erosion	3	4	1	76:50:34	39:10:19
LP081215	Pond Site				76:50:35	39:10:20
LP081217	Pond Site				76:50:51	39:10:26
LP082102	Tree Blockage				76:50:58	39:10:52
LP082342	Fish Blockage	4	3	1	76:50:18	39:10:43
LP082343	Unusual Condition	2	4	2	76:50:19	39:10:45
LP082346	Trash Dumping	5	1	2	76:50:14	39:10:47

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP082347	Inadequate Buffer	4	1	2	76:50:19	39:10:49
LP082348	Pond Site				76:50:21	39:10:52
LP082348	Fish Blockage	3	3	2	76:50:20	39:10:51
LP082349	Representative Site				76:50:21	39:10:53
LP082351	Tree Blockage				76:50:35	39:10:53
LP082352	Tree Blockage				76:50:35	39:10:52
LP083301	Pond Site				76:50:16	39:11:06
LP083302	Unusual Condition	4	-1	2	76:50:14	39:11:09
LP083304	Inadequate Buffer	4	2	1	76:50:14	39:11:14
LP083345	Unusual Condition	4	4	2	76:50:14	39:10:48
LP083350	Pond Site				76:50:15	39:10:57
LP083355	Fish Blockage	2	5	1	76:50:49	39:10:59
LP084309	Pond Site				76:50:36	39:11:24
LP084312	Erosion	5	1	1	76:50:37	39:11:19
LP084312	Tree Blockage				76:50:38	39:11:19
LP084313	Pond Site				76:50:34	39:11:16
LP084314	Exposed Pipe	2	3	2	76:50:17	39:11:17
LP084315	Erosion	4	3	2	76:50:17	39:11:18
LP085120	Tree Blockage				76:50:38	39:11:39
LP085121	Inadequate Buffer	3	3	1	76:50:32	39:11:50
LP085126	Erosion	4	2	1	76:50:27	39:11:54
LP085128	Channel Alteration	2	4	1	76:50:33	39:11:55
LP085130	Tree Blockage				76:50:35	39:11:55
LP085131	Inadequate Buffer	4	2	1	76:50:36	39:11:39
LP085132	Tree Blockage				76:50:42	39:11:53
LP085134	Tree Blockage				76:50:44	39:11:51
LP085137	Inadequate Buffer	5	2	1	76:50:39	39:11:54
LP085212	Inadequate Buffer	3	5	1	76:50:55	39:11:40
LP086202	Erosion	4	3	3	76:50:27	39:12:18
LP086204	Pond Site				76:50:38	39:12:14
LP086206	Representative Site				76:50:32	39:12:09
LP086208	Inadequate Buffer	4	2	2	76:50:25	39:12:10
LP086209	Erosion	4	3	2	76:50:32	39:12:05
LP086210	Unusual Condition	2	3	3	76:50:32	39:12:04
LP086223	Erosion	4	3	3	76:50:18	39:12:16
LP086225	Tree Blockage				76:50:21	39:12:15
LP086230	Channel Alteration	3	4	2	76:50:54	39:12:17
LP087235	Exposed Pipe	5	3	1	76:50:53	39:12:31
LP088227	Inadequate Buffer	4	3	1	76:50:26	39:12:55
LP088228	Exposed Pipe	4	2	1	76:50:30	39:12:59
LP088230	Channel Alteration	4	3	1	76:50:50	39:12:50
LP088232	Erosion	3	3	3	76:50:47	39:12:54
LP088233	Erosion	3	3	3	76:50:46	39:12:53
LP088235	Exposed Pipe	3	2	2	76:50:33	39:12:52
LP088237	Representative Site				76:50:34	39:13:01
LP088238	Tree Blockage				76:50:42	39:13:04
LP088239	Tree Blockage				76:50:45	39:13:03
LP088240	Erosion	4	3	3	76:50:53	39:13:02
LP088241	Fish Blockage	5	2	3	76:50:56	39:13:03
LP089201	Representative Site				76:50:35	39:13:13
LP089202	Tree Blockage				76:50:39	39:13:13

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP089203	Pond Site				76:50:52	39:13:16
LP089204	Channel Alteration	4	2	2	76:50:22	39:13:07
LP089205	Inadequate Buffer	4	2	2	76:50:22	39:13:07
LP089242	Pond Site				76:50:25	39:13:12
LP089243	Pond Site				76:50:28	39:13:15
LP089244	Pond Site				76:50:37	39:13:15
LP089245	Pond Site				76:50:45	39:13:22
LP089246	Pond Site				76:50:51	39:13:18
LP090206	Erosion	3	3	2	76:50:24	39:13:35
LP090208	Pond Site				76:50:27	39:13:34
LP090209	Representative Site				76:50:27	39:13:36
LP090210	Tree Blockage				76:50:32	39:13:38
LP090212	Pond Site				76:50:41	39:13:37
LP091120	Inadequate Buffer	1	4	1	76:50:50	39:13:51
LP091121	Exposed Pipe	5	2	1	76:50:51	39:13:52
LP091122	Erosion	3	3	1	76:50:44	39:13:50
LP091126	Representative Site				76:50:37	39:13:54
LP091127	Tree Blockage				76:50:35	39:13:56
LP091128	Pond Site				76:50:22	39:14:01
LP091129	Tree Blockage				76:50:28	39:13:58
LP091130	Tree Blockage				76:50:26	39:14:00
LP092101	Inadequate Buffer	3	3	1	76:50:55	39:14:24
LP092101	Tree Blockage				76:50:51	39:14:30
LP092102	Exposed Pipe	3	3	1	76:50:18	39:14:11
LP092111	Inadequate Buffer	3	3	1	76:50:17	39:14:12
LP093102	Inadequate Buffer	3	3	1	76:50:49	39:14:39
LP093103	Tree Blockage				76:50:47	39:14:42
LP093104	Erosion	3	3	1	76:50:42	39:14:45
LP093105	Tree Blockage				76:50:45	39:14:44
LP093107	Channel Alteration	3	4	1	76:50:42	39:14:45
LP093108	Tree Blockage				76:50:44	39:14:51
LP093109	Inadequate Buffer	4	3	1	76:50:53	39:14:44
LP093202	Erosion	4	3	3	76:50:15	39:14:41
LP093205	Inadequate Buffer	2	2	4	76:50:18	39:14:45
LP093206	Pond Site				76:50:15	39:14:42
LP093213	Fish Blockage	5	2	2	76:50:28	39:14:45
LP094108	Pond Site				76:50:52	39:14:55
LP094110	Tree Blockage				76:50:43	39:14:57
LP094111	Representative Site				76:50:46	39:15:00
LP094112	Tree Blockage				76:50:51	39:15:05
LP095114	Tree Blockage				76:50:53	39:15:24
LP096101	Tree Blockage				76:50:57	39:15:37
LP096103	Pond Site				76:50:56	39:15:46
LP097113	Inadequate Buffer	4	2	2	76:50:49	39:15:59
LP097115	Exposed Pipe	3	3	2	76:50:50	39:15:59
LP097122	Inadequate Buffer	4	2	2	76:50:54	39:16:09
LP097230	Inadequate Buffer	1	3	2	76:50:28	39:16:35
LP097237	Pond Site				76:50:30	39:16:12
LP098102	Inadequate Buffer	3	3	1	76:50:57	39:16:33
LP098105	Erosion	4	3	1	76:50:53	39:16:41
LP098239	Pond Site				76:50:37	39:16:23

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP098240	Pond Site				76:50:41	39:16:24
LP098242	Tree Blockage				76:50:29	39:16:30
LP098244	Channel Alteration	5	2	2	76:50:28	39:16:36
LP098245	Channel Alteration	5	2	2	76:50:24	39:16:37
LP098246	Representative Site				76:50:27	39:16:37
LP099247	Fish Blockage	3	4	1	76:50:27	39:16:46
LP099250	Erosion	4	2	2	76:50:28	39:16:50
LP099252	Inadequate Buffer	2	3	2	76:50:41	39:16:59
LP100205	Pipe Outfall	5	1	2	76:49:22	39:13:20
LP100206	Pipe Outfall	5	1	1	76:49:22	39:13:20
LP100255	Pond Site				76:50:32	39:17:24
LP10109	Pipe Outfall	5	1	3	76:51:07	39:10:06
LP10110	Pipe Outfall	4	2	1	76:51:32	39:10:42
LP10111	Pipe Outfall	5	1	1	76:51:27	39:10:55
LP10113	Pipe Outfall	3	4	2	76:51:33	39:11:11
LP101201	Pond Site				76:50:38	39:17:39
LP101202	Erosion	3	3	3	76:50:44	39:17:38
LP101203	Pond Site				76:50:44	39:17:35
LP101204	Representative Site				76:50:46	39:17:30
LP101254	Pond Site				76:50:37	39:17:25
LP103207	Inadequate Buffer	4	3	1	76:51:06	39:10:05
LP103207	Pipe Outfall	5	1	1	76:48:47	39:14:49
LP104201	Inadequate Buffer	4	2	1	76:51:21	39:10:29
LP104202	Erosion	4	3	2	76:51:20	39:10:28
LP104202	Tree Blockage				76:51:21	39:10:26
LP104203	Erosion	4	3	3	76:51:22	39:10:21
LP104204	Representative Site				76:51:22	39:10:19
LP104205	Tree Blockage				76:51:20	39:10:14
LP104206	Erosion	4	3	2	76:51:14	39:10:11
LP104206	Inadequate Buffer	4	2	1	76:51:14	39:10:11
LP104210	Tree Blockage				76:51:41	39:10:29
LP104211	Erosion	5	3	3	76:51:36	39:10:26
LP105101	Erosion	1	5	2	76:51:17	39:10:44
LP105102	Pipe Outfall	5	2	1	76:48:46	39:14:51
LP105102	Tree Blockage				76:51:26	39:10:38
LP105103	Unusual Condition	5	3	2	76:51:08	39:10:49
LP105103	Tree Blockage				76:51:10	39:10:48
LP105104	Erosion	3	3	3	76:51:03	39:10:53
LP105104	Representative Site				76:51:07	39:10:53
LP105105	Erosion	5	3	3	76:51:14	39:10:48
LP105106	Fish Blockage	2	3	1	76:51:13	39:10:47
LP105107	Tree Blockage				76:51:16	39:10:49
LP105108	Inadequate Buffer	5	3	1	76:51:15	39:10:49
LP105109	Representative Site				76:51:21	39:10:53
LP105199	Tree Blockage				76:51:01	39:10:53
LP106101	Pipe Outfall	5	2	1	76:48:35	39:14:49
LP106105	Representative Site				76:51:10	39:11:08
LP106106	Pond Site				76:51:08	39:11:01
LP106110	Exposed Pipe	4	2	1	76:51:28	39:11:03
LP106111	Tree Blockage				76:51:31	39:11:09
LP106112	Pipe Outfall	5	1	1	76:48:38	39:14:48

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP107103	Tree Blockage				76:51:41	39:11:35
LP107106	Inadequate Buffer	4	1	1	76:51:13	39:11:20
LP107107	Tree Blockage				76:51:13	39:11:26
LP107108	Fish Blockage	5	1	1	76:51:24	39:11:34
LP107110	Erosion	5	2	1	76:51:09	39:11:27
LP107111	Pipe Outfall	5	1	1	76:52:41	39:13:49
LP107112	Channel Alteration	2	4	1	76:51:01	39:11:31
LP107113	Tree Blockage				76:51:00	39:11:31
LP107114	Pipe Outfall	4	2	1	76:52:42	39:13:49
LP107115	Tree Blockage				76:51:03	39:11:32
LP107116	Representative Site				76:50:59	39:11:37
LP108109	Representative Site				76:51:23	39:11:41
LP108110	Tree Blockage				76:51:24	39:11:51
LP108111	Pipe Outfall	5	1	1	76:48:32	39:14:56
LP108201	Pipe Outfall	5	1	1	76:49:15	39:08:07
LP108203	Exposed Pipe	3	5	2	76:51:01	39:11:56
LP108203	Erosion	4	2	2	76:51:00	39:11:55
LP108204	Pipe Outfall	5	1	2	76:48:59	39:08:05
LP108205	Representative Site				76:51:32	39:11:55
LP108205	Pipe Outfall	4	2	2	76:48:41	39:14:41
LP108205	Inadequate Buffer	5	3	2	76:51:08	39:11:58
LP108206	Erosion	4	3	2	76:51:12	39:11:58
LP109201	Inadequate Buffer	3	3	2	76:51:17	39:12:04
LP109202	Pipe Outfall	4	2	2	76:48:54	39:08:08
LP109203	Tree Blockage				76:51:23	39:12:09
LP109204	Representative Site				76:51:22	39:12:10
LP109205	Exposed Pipe	5	1	2	76:51:28	39:12:16
LP109205	Pipe Outfall	5	1	2	76:48:53	39:08:04
LP109206	Pipe Outfall	5	1	2	76:48:56	39:08:38
LP109207	Pond Site				76:51:33	39:12:16
LP109208	Exposed Pipe	5	1	2	76:51:31	39:12:20
LP109209	Exposed Pipe	5	2	1	76:51:29	39:12:23
LP109232	Pipe Outfall	5	1	2	76:52:19	39:17:16
LP110101	Pipe Outfall	5	1	1	76:52:22	39:17:17
LP110121	Fish Blockage	2	3	2	76:51:18	39:12:42
LP110209	Fish Blockage	4	1	2	76:51:29	39:12:23
LP110209	Tree Blockage				76:51:30	39:12:23
LP110210	Exposed Pipe	5	2	1	76:51:25	39:12:28
LP110210	Channel Alteration	4	2	1	76:51:24	39:12:29
LP110210	Inadequate Buffer	3	4	1	76:51:34	39:12:35
LP110211	Erosion	3	3	1	76:51:30	39:12:23
LP110211	Tree Blockage				76:51:32	39:12:23
LP110212	Erosion	5	2	2	76:51:32	39:12:24
LP110213	Fish Blockage	4	3	1	76:51:34	39:12:28
LP110214	Representative Site				76:50:58	39:12:31
LP110233	Pond Site				76:51:16	39:12:26
LP110234	Unusual Condition	1	5	2	76:51:20	39:12:27
LP110234	Pipe Outfall	1	5	2	76:51:20	39:12:27
LP110236	Tree Blockage				76:50:57	39:12:31
LP110237	Representative Site				76:51:36	39:12:29
LP110238	Tree Blockage				76:50:59	39:12:31

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP110239	Pond Site				76:51:02	39:12:30
LP110240	Erosion	4	3	3	76:51:05	39:12:30
LP110241	Tree Blockage				76:51:09	39:12:31
LP110242	Pond Site				76:51:10	39:12:30
LP110243	Inadequate Buffer	3	3	2	76:51:25	39:12:28
LP110244	Unusual Condition	2	4	3	76:50:58	39:12:31
LP110245	Inadequate Buffer	3	4	1	76:50:57	39:12:35
LP111102	Exposed Pipe	4	3	1	76:51:12	39:12:47
LP111103	Unusual Condition	3	3	1	76:51:08	39:12:59
LP111119	Pipe Outfall	4	2	1	76:51:41	39:17:35
LP111120	Pipe Outfall	5	1	1	76:52:05	39:17:56
LP111207	Pipe Outfall	4	2	2	76:50:10	39:16:07
LP111208	Exposed Pipe	4	2	2	76:51:06	39:12:46
LP111208	Pipe Outfall	3	2	1	76:49:50	39:16:36
LP111209	Channel Alteration	4	3	2	76:51:07	39:12:47
LP111209	Pipe Outfall	4	2	1	76:49:49	39:16:36
LP11150	Inadequate Buffer	2	4	1	76:48:15	39:07:59
LP11151	Inadequate Buffer	2	4	1	76:48:10	39:07:57
LP112101	Tree Blockage				76:51:03	39:13:05
LP112104	Representative Site				76:51:07	39:13:05
LP112105	Tree Blockage				76:51:07	39:13:15
LP112106	Tree Blockage				76:51:06	39:13:15
LP112107	Pond Site				76:51:05	39:13:19
LP112108	Inadequate Buffer	4	1	1	76:51:31	39:13:25
LP112109	Channel Alteration	4	2	1	76:51:31	39:13:25
LP112110	Pipe Outfall	4	2	1	76:52:24	39:11:36
LP112111	Exposed Pipe	5	2	1	76:51:27	39:13:21
LP112112	Pipe Outfall	4	2	2	76:52:25	39:11:34
LP112113	Pond Site				76:51:25	39:13:11
LP112114	Pipe Outfall	5	1	1	76:52:29	39:11:44
LP112115	Tree Blockage				76:51:21	39:13:10
LP112116	Erosion	4	3	1	76:51:18	39:13:07
LP112117	Pipe Outfall	5	1	1	76:52:31	39:11:45
LP112118	Inadequate Buffer	4	5	1	76:51:31	39:13:25
LP112122	Fish Blockage	3	5	1	76:51:33	39:13:25
LP113102	Tree Blockage				76:51:06	39:13:31
LP113103	Representative Site				76:51:05	39:13:31
LP113104	Pipe Outfall	4	2	1	76:52:29	39:11:49
LP113105	Pipe Outfall	4	2	1	76:52:45	39:11:45
LP113106	Pipe Outfall	5	1	1	76:52:44	39:11:45
LP113107	Pipe Outfall	4	2	1	76:52:40	39:11:42
LP113108	Pond Site				76:51:02	39:13:41
LP113109	Pipe Outfall	5	2	1	76:52:37	39:11:51
LP113110	Pipe Outfall	4	2	1	76:50:33	39:16:54
LP113111	Pipe Outfall	4	2	1	76:49:49	39:16:35
LP113112	Pipe Outfall	4	2	1	76:49:54	39:16:34
LP113113	Fish Blockage	5	5	1	76:51:21	39:13:40
LP113114	Inadequate Buffer	4	3	1	76:51:19	39:13:42
LP113115	Fish Blockage	5	1	1	76:51:17	39:13:43
LP113116	Pipe Outfall	4	2	1	76:52:48	39:12:10
LP114101	Pipe Outfall	4	2	1	76:52:50	39:12:09

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP114102	Tree Blockage				76:51:08	39:13:57
LP114103	Pipe Outfall	4	2	1	76:52:50	39:12:08
LP114104	Pipe Outfall	4	2	1	76:53:01	39:12:09
LP114105	Pond Site				76:51:05	39:13:57
LP114106	Pipe Outfall	5	1	1	76:53:04	39:12:14
LP114107	Erosion	3	3	2	76:51:09	39:13:54
LP114108	Tree Blockage				76:51:07	39:14:01
LP114109	Tree Blockage				76:51:00	39:14:08
LP114112	Tree Blockage				76:51:09	39:13:53
LP114113	Inadequate Buffer	3	3	1	76:51:24	39:13:55
LP114114	Pipe Outfall	5	1	1	76:52:52	39:12:29
LP114115	Pipe Outfall	4	2	1	76:52:53	39:12:33
LP114116	Pipe Outfall	4	2	1	76:52:53	39:12:33
LP114116	Pond Site				76:51:31	39:14:01
LP114117	Fish Blockage	4	3	2	76:51:15	39:14:09
LP114117	Inadequate Buffer	2	3	1	76:51:21	39:13:58
LP114118	Pond Site				76:51:12	39:14:08
LP114119	Pipe Outfall	4	2	2	76:50:02	39:16:35
LP115110	Unusual Condition	4	4	1	76:50:59	39:14:11
LP115112	Pipe Outfall	5	1	1	76:52:26	39:12:27
LP115113	Pipe Outfall	5	1	1	76:52:32	39:12:28
LP115114	Pipe Outfall	4	2	1	76:52:36	39:12:52
LP115115	Pipe Outfall	4	2	1	76:52:43	39:12:52
LP115116	Pipe Outfall	4	2	1	76:52:44	39:12:51
LP115117	Fish Blockage	3	5	1	76:51:07	39:14:27
LP115118	Pipe Outfall	4	2	1	76:53:03	39:13:10
LP116101	Pond Site				76:51:32	39:14:44
LP116102	Fish Blockage	2	2	3	76:51:31	39:14:45
LP116103	Pipe Outfall	4	2	1	76:50:03	39:16:30
LP116105	Pond Site				76:51:37	39:14:48
LP117101	Pipe Outfall	4	2	1	76:50:05	39:16:27
LP117102	Pond Site				76:51:10	39:14:55
LP117103	Pipe Outfall	4	2	1	76:50:10	39:17:09
LP117104	Pond Site				76:51:15	39:15:01
LP117104	Pipe Outfall	4	2	1	76:50:06	39:17:08
LP117105	Pipe Outfall	4	2	1	76:50:03	39:17:08
LP117106	Tree Blockage				76:51:18	39:15:01
LP117107	Inadequate Buffer	2	3	1	76:51:28	39:15:09
LP117108	Pipe Outfall	4	2	1	76:49:59	39:17:05
LP117109	Representative Site				76:51:23	39:15:08
LP117110	Unusual Condition	4	4	1	76:51:25	39:15:09
LP117111	Pipe Outfall	4	2	1	76:50:09	39:17:39
LP117112	Pipe Outfall	5	1	1	76:50:09	39:17:38
LP117113	Pipe Outfall	5	1	1	76:50:11	39:17:28
LP117114	Pipe Outfall	4	2	1	76:50:11	39:17:27
LP118106	Pipe Outfall	5	1	1	76:50:17	39:09:47
LP118112	Pond Site				76:51:31	39:15:25
LP118113	Inadequate Buffer	2	3	1	76:51:21	39:15:32
LP119103	Tree Blockage				76:51:00	39:15:40
LP119107	Pipe Outfall	5	1	1	76:50:38	39:09:43
LP119108	Pipe Outfall	4	2	1	76:50:18	39:10:02

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP119109	Pipe Outfall	4	2	1	76:50:35	39:09:54
LP119110	Pond Site				76:51:37	39:15:42
LP119111	Pond Site				76:51:13	39:15:52
LP119301	Pipe Outfall	3	3	1	76:50:19	39:09:47
LP120104	Pond Site				76:51:02	39:16:14
LP120105	Pond Site				76:51:36	39:16:17
LP120106	Pond Site				76:51:15	39:16:04
LP120108	Tree Blockage				76:51:22	39:16:20
LP120110	Pipe Outfall	4	2	2	76:50:14	39:10:05
LP120111	Tree Blockage				76:51:13	39:16:14
LP120112	Representative Site				76:51:11	39:16:13
LP120124	Pipe Outfall	5	1	2	76:50:43	39:10:08
LP12105	Pipe Outfall	5	1	1	76:51:04	39:11:30
LP12106	Pipe Outfall	3	2	1	76:50:57	39:11:30
LP121101	Pond Site				76:51:06	39:16:26
LP121102	Representative Site				76:51:10	39:16:41
LP121103	Channel Alteration	5	1	1	76:51:01	39:16:34
LP121104	Representative Site				76:50:57	39:16:39
LP121105	Pipe Outfall	4	2	2	76:50:28	39:09:58
LP121106	Pipe Outfall	4	2	1	76:50:39	39:10:12
LP121107	Pipe Outfall	4	2	1	76:50:32	39:10:21
LP121109	Fish Blockage	2	3	2	76:51:26	39:16:22
LP121109	Exposed Pipe	4	3	2	76:51:26	39:16:22
LP12118	Pipe Outfall	4	2	1	76:51:22	39:11:56
LP122103	Pond Site				76:51:27	39:16:56
LP122201	Pipe Outfall	4	2	2	76:50:18	39:10:42
LP123104	Inadequate Buffer	5	3	3	76:51:24	39:17:11
LP123105	Pipe Outfall	5	1	1	76:50:17	39:10:48
LP123106	Inadequate Buffer	5	3	1	76:51:20	39:17:22
LP123107	Pond Site				76:51:20	39:17:23
LP123108	Pipe Outfall	5	1	1	76:50:14	39:10:47
LP123113	Pipe Outfall	5	1	1	76:50:33	39:10:51
LP123114	Pipe Outfall	5	1	1	76:50:32	39:10:49
LP123115	Pond Site				76:51:39	39:17:18
LP123201	Pipe Outfall	4	2	2	76:50:18	39:10:43
LP124109	Pipe Outfall	4	2	1	76:50:14	39:11:09
LP124110	Pipe Outfall	4	2	1	76:50:14	39:11:15
LP124111	Pond Site				76:51:22	39:17:28
LP124112	Pipe Outfall	4	1	1	76:50:14	39:11:16
LP124301	Pipe Outfall	4	2	2	76:47:59	39:14:10
LP125106	Pond Site				76:51:38	39:17:51
LP125301	Channel Alteration	4	3	1	76:51:37	39:17:48
LP126201	Pipe Outfall	5	1	1	76:48:58	39:08:43
LP126202	Pipe Outfall	5	1	1	76:49:23	39:08:47
LP126203	Pipe Outfall	5	1	1	76:48:58	39:08:47
LP126204	Erosion	4	3	2	76:52:04	39:10:32
LP126205	Representative Site				76:52:01	39:10:32
LP126206	Erosion	4	3	2	76:51:53	39:10:32
LP126208	Tree Blockage				76:51:47	39:10:31
LP126208	Fish Blockage	4	1	2	76:51:46	39:10:32
LP126209	Erosion	5	3	2	76:51:44	39:10:31

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP126209	Trash Dumping	4	1	2	76:51:44	39:10:31
LP127207	Pipe Outfall	5	1	1	76:48:59	39:08:50
LP128101	Pipe Outfall	5	2	1	76:48:58	39:08:56
LP128102	Inadequate Buffer	3	2	1	76:52:02	39:11:02
LP128103	Pond Site				76:52:18	39:11:00
LP128104	Pipe Outfall	5	2	1	76:49:27	39:08:49
LP128105	Inadequate Buffer	4	2	1	76:51:57	39:11:12
LP128106	Inadequate Buffer	3	2	1	76:52:06	39:11:08
LP128107	Erosion	3	4	2	76:51:58	39:11:14
LP128218	Pond Site				76:52:06	39:10:55
LP129101	Pipe Outfall	4	2	1	76:49:20	39:09:08
LP129102	Inadequate Buffer	2	4	1	76:51:39	39:11:35
LP129107	Pond Site				76:52:10	39:11:25
LP129108	Pond Site				76:52:05	39:11:17
LP129109	Pond Site				76:52:08	39:11:18
LP129110	Tree Blockage				76:52:07	39:11:16
LP129111	Pond Site				76:52:09	39:11:19
LP129111	Pipe Outfall	5	1	1	76:49:17	39:09:41
LP130201	Pipe Outfall	4	2	1	76:49:29	39:09:35
LP130202	Pipe Outfall	5	1	1	76:49:18	39:11:22
LP130203	Erosion	3	3	3	76:51:41	39:11:51
LP130204	Inadequate Buffer	4	4	1	76:51:42	39:11:51
LP131201	Pipe Outfall	4	2	2	76:49:22	39:11:24
LP131202	Tree Blockage				76:52:05	39:12:16
LP131202	Erosion	4	2	2	76:52:04	39:12:17
LP131217	Tree Blockage				76:52:00	39:12:18
LP131217	Fish Blockage	5	1	2	76:51:59	39:12:18
LP132215	Pond Site				76:51:45	39:12:28
LP132216	Fish Blockage	3	3	1	76:51:48	39:12:29
LP132217	Erosion	4	3	2	76:51:51	39:12:32
LP132217	Tree Blockage				76:51:51	39:12:31
LP132218	Exposed Pipe	2	4	2	76:51:50	39:12:32
LP132219	Erosion	4	3	3	76:51:53	39:12:33
LP132220	Representative Site				76:52:14	39:12:31
LP132221	Tree Blockage				76:51:55	39:12:32
LP132222	Erosion	3	3	2	76:51:57	39:12:33
LP132223	Inadequate Buffer	4	2	2	76:51:58	39:12:33
LP132224	Fish Blockage	3	4	2	76:51:58	39:12:33
LP132225	Fish Blockage	3	5	2	76:52:02	39:12:33
LP132226	Tree Blockage				76:52:06	39:12:32
LP132227	Tree Blockage				76:52:10	39:12:33
LP132228	Inadequate Buffer	4	3	2	76:52:17	39:12:36
LP132228	Erosion	3	4	3	76:52:17	39:12:35
LP132229	Tree Blockage				76:52:17	39:12:34
LP132230	Inadequate Buffer	4	2	2	76:52:18	39:12:41
LP132231	Tree Blockage				76:52:14	39:12:32
LP132232	Inadequate Buffer	3	3	2	76:52:16	39:12:30
LP132232	Pipe Outfall	5	1	2	76:49:21	39:11:26
LP132233	Representative Site				76:51:54	39:12:35
LP132234	Pipe Outfall	4	2	2	76:49:13	39:11:26
LP132234	Erosion	4	3	3	76:52:17	39:12:30

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP132235	Erosion	4	3	2	76:52:17	39:12:27
LP132246	Representative Site				76:51:53	39:12:33
LP132247	Unusual Condition	4	4	3	76:51:55	39:12:39
LP132248	Pipe Outfall	4	2	1	76:52:58	39:13:13
LP132249	Pipe Outfall	4	2	1	76:52:49	39:13:18
LP132250	Pipe Outfall	4	2	1	76:53:06	39:12:27
LP134301	Pipe Outfall	4	2	2	76:50:49	39:11:37
LP134302	Pipe Outfall	4	2	2	76:50:35	39:11:23
LP134303	Exposed Pipe	4	2	2	76:52:22	39:13:25
LP134304	Pipe Outfall	4	2	1	76:50:36	39:11:23
LP135301	Pipe Outfall	5	1	2	76:50:16	39:11:21
LP135302	Pipe Outfall	5	1	2	76:50:18	39:11:27
LP135303	Tree Blockage				76:52:08	39:13:35
LP135304	Pipe Outfall	4	2	2	76:50:20	39:11:25
LP135305	Pipe Outfall	4	3	2	76:50:18	39:11:28
LP135305	Exposed Pipe	4	3	3	76:52:20	39:13:34
LP135306	Pipe Outfall	4	2	3	76:50:41	39:11:40
LP135307	Pipe Outfall	4	2	3	76:50:40	39:11:39
LP135308	Representative Site				76:52:19	39:13:35
LP135309	Inadequate Buffer	4	2	2	76:52:19	39:13:38
LP135310	Pipe Outfall	4	2	1	76:50:34	39:11:38
LP135311	Pipe Outfall	4	2	1	76:50:24	39:11:55
LP135312	Pipe Outfall	4	2	2	76:50:25	39:11:55
LP136301	Pipe Outfall	4	2	2	76:50:26	39:11:54
LP136302	Pond Site				76:51:52	39:13:59
LP136303	Pond Site				76:52:13	39:13:56
LP136304	Pipe Outfall	4	2	2	76:50:30	39:11:55
LP136305	Pipe Outfall	4	2	2	76:50:35	39:11:55
LP136306	Inadequate Buffer	4	2	2	76:52:11	39:13:49
LP136307	Pipe Outfall	4	2	2	76:50:43	39:11:52
LP137301	Pond Site				76:51:58	39:14:26
LP137301	Inadequate Buffer	4	2	2	76:52:16	39:14:27
LP137302	Pond Site				76:52:21	39:14:23
LP137302	Fish Blockage	4	4	1	76:52:18	39:14:24
LP138301	Pond Site				76:51:43	39:14:41
LP138302	Erosion	4	3	4	76:51:40	39:14:38
LP138303	Pipe Outfall	4	2	1	76:50:45	39:11:49
LP138310	Representative Site				76:52:22	39:14:32
LP139106	Pond Site				76:52:23	39:15:10
LP139301	Pipe Outfall	4	2	1	76:50:54	39:11:42
LP139302	Pipe Outfall	4	2	1	76:50:34	39:11:57
LP139303	Pipe Outfall	4	2	1	76:50:30	39:11:45
LP139304	Pond Site				76:52:09	39:14:56
LP140201	Pond Site				76:52:23	39:15:32
LP141203	Pond Site				76:51:51	39:15:44
LP141301	Pond Site				76:52:18	39:15:53
LP141302	Pond Site				76:51:48	39:15:44
LP141304	Pond Site				76:51:49	39:15:48
LP141305	Pond Site				76:51:46	39:15:48
LP141306	Pipe Outfall	5	3	1	76:50:26	39:12:19
LP141307	Pipe Outfall	5	3	1	76:50:30	39:12:13

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP141308	Tree Blockage				76:51:45	39:15:45
LP141309	Unusual Condition	4	4	2	76:51:43	39:15:45
LP141310	Pipe Outfall	3	3	1	76:50:32	39:12:09
LP141311	Pipe Outfall	3	3	1	76:50:28	39:12:09
LP142301	Unusual Condition	4	4	2	76:52:18	39:15:58
LP142302	Pipe Outfall	3	3	1	76:50:21	39:12:11
LP142303	Pipe Outfall	4	3	1	76:50:17	39:12:17
LP142304	Exposed Pipe	5	3	1	76:52:16	39:16:06
LP142305	Tree Blockage				76:52:15	39:16:09
LP142306	Inadequate Buffer	3	1	1	76:52:14	39:16:11
LP142307	Pipe Outfall	5	3	1	76:50:52	39:12:17
LP142308	Pipe Outfall	5	3	1	76:50:54	39:12:16
LP142309	Pipe Outfall	3	3	2	76:50:34	39:12:39
LP142315	Pipe Outfall	5	3	1	76:50:24	39:12:54
LP142316	Pond Site				76:52:01	39:16:13
LP143301	Pipe Outfall	5	3	2	76:50:30	39:12:59
LP143302	Pipe Outfall	5	3	1	76:50:32	39:13:01
LP143303	Pipe Outfall	5	3	2	76:50:51	39:12:49
LP143304	Fish Blockage	5	2	2	76:52:06	39:16:30
LP143305	Pipe Outfall	5	3	1	76:50:50	39:12:50
LP143306	Pipe Outfall	5	3	1	76:50:44	39:12:57
LP143307	Pond Site				76:51:49	39:16:25
LP143308	Pond Site				76:51:47	39:16:22
LP143309	Pond Site				76:51:44	39:16:25
LP143310	Representative Site				76:51:44	39:16:24
LP143311	Pipe Outfall	5	3	1	76:50:18	39:13:28
LP143312	Pipe Outfall	5	3	1	76:50:18	39:13:36
LP143313	Pipe Outfall	5	3	1	76:50:19	39:13:40
LP143314	Inadequate Buffer	3	1	1	76:51:58	39:16:18
LP143315	Channel Alteration	4	3	1	76:52:07	39:16:35
LP144301	Channel Alteration	5	3	1	76:52:07	39:16:45
LP144302	Pipe Outfall	3	3	1	76:50:35	39:13:40
LP144303	Pond Site				76:52:12	39:16:46
LP144304	Pipe Outfall	3	3	3	76:48:48	39:07:23
LP144305	Pond Site				76:52:07	39:16:54
LP144306	Pipe Outfall	5	3	1	76:48:47	39:07:23
LP144307	Fish Blockage	4	3	2	76:51:52	39:17:02
LP144308	Representative Site				76:51:51	39:17:03
LP144309	Pond Site				76:51:58	39:17:02
LP144310	Inadequate Buffer	3	1	1	76:52:04	39:17:00
LP144311	Pipe Outfall	5	3	1	76:48:47	39:07:23
LP144312	Fish Blockage	5	3	1	76:52:03	39:17:00
LP144313	Erosion	5	3	1	76:52:03	39:17:00
LP144314	Pipe Outfall	5	3	2	76:48:46	39:07:23
LP144315	Pond Site				76:51:42	39:17:03
LP145301	Pond Site				76:51:48	39:17:07
LP145302	Pipe Outfall	5	3	1	76:50:47	39:13:48
LP145303	Pond Site				76:52:00	39:17:13
LP145304	Pond Site				76:51:52	39:17:13
LP145305	Pipe Outfall	5	1	2	76:50:46	39:13:48
LP145306	Inadequate Buffer	4	2	2	76:51:47	39:17:21

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Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP145307	Inadequate Buffer	4	2	2	76:51:47	39:17:24
LP145308	Channel Alteration	4	2	2	76:52:09	39:17:19
LP145309	Pipe Outfall	5	1	1	76:50:41	39:13:52
LP145310	Pipe Outfall	5	1	2	76:50:22	39:14:07
LP145311	Pipe Outfall	4	2	1	76:48:35	39:07:23
LP145312	Inadequate Buffer	4	2	2	76:52:18	39:17:20
LP145313	Pond Site				76:52:22	39:17:20
LP146301	Representative Site				76:51:41	39:17:34
LP146302	Inadequate Buffer	4	2	2	76:51:41	39:17:33
LP146303	Pipe Outfall	5	1	1	76:50:41	39:14:44
LP146304	Representative Site				76:51:51	39:17:43
LP146305	Fish Blockage	5	5	3	76:51:55	39:17:45
LP146306	Erosion	4	3	3	76:52:04	39:17:26
LP146307	Inadequate Buffer	4	2	1	76:52:17	39:17:42
LP146308	Inadequate Buffer	5	2	2	76:52:10	39:17:39
LP146309	Unusual Condition	4	4	2	76:52:10	39:17:40
LP146310	Unusual Condition	4	1	3	76:52:10	39:17:36
LP147103	Pond Site				76:51:44	39:17:58
LP147104	Pond Site				76:52:15	39:18:06
LP147301	Fish Blockage	3	3	1	76:51:40	39:17:49
LP147302	Inadequate Buffer	4	2	2	76:52:05	39:17:56
LP147303	Pipe Outfall	4	2	2	76:50:16	39:14:40
LP147304	Exposed Pipe	3	3	2	76:52:04	39:17:57
LP148105	Pond Site				76:52:20	39:18:19
LP153101	Pipe Outfall	5	1	1	76:49:16	39:11:27
LP153102	Tree Blockage				76:52:36	39:11:36
LP153103	Erosion	4	3	1	76:52:34	39:11:37
LP153113	Pipe Outfall	5	1	1	76:49:21	39:11:43
LP154104	Pipe Outfall	4	2	1	76:49:16	39:11:43
LP154105	Pipe Outfall	4	2	1	76:49:22	39:11:47
LP154106	Pipe Outfall	4	2	1	76:49:22	39:11:46
LP154107	Pipe Outfall	4	2	1	76:49:22	39:11:49
LP154108	Pipe Outfall	4	2	1	76:49:23	39:11:56
LP154109	Pipe Outfall	4	2	1	76:49:13	39:11:58
LP154110	Representative Site				76:52:36	39:11:44
LP154111	Tree Blockage				76:52:37	39:11:44
LP154112	Tree Blockage				76:52:38	39:11:47
LP154113	Pipe Outfall	4	2	1	76:49:12	39:11:58
LP154114	Pond Site				76:52:44	39:11:58
LP154115	Inadequate Buffer	2	3	1	76:52:39	39:12:05
LP154116	Erosion	3	3	1	76:52:49	39:12:09
LP155101	Tree Blockage				76:52:45	39:12:12
LP155102	Erosion	4	2	1	76:52:46	39:12:20
LP155103	Tree Blockage				76:52:47	39:12:15
LP155104	Tree Blockage				76:52:47	39:12:18
LP155117	Pond Site				76:52:33	39:12:09
LP155118	Tree Blockage				76:52:42	39:12:07
LP155119	Exposed Pipe	3	3	2	76:52:42	39:12:10
LP155120	Exposed Pipe	3	3	2	76:52:42	39:12:10
LP155121	Pipe Outfall	4	2	1	76:49:30	39:12:03
LP155123	Inadequate Buffer	2	3	1	76:52:58	39:12:06

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP155124	Pipe Outfall	5	1	1	76:49:24	39:12:11
LP155125	Pipe Outfall	4	2	1	76:49:21	39:12:09
LP155126	Fish Blockage	3	4	1	76:52:57	39:12:06
LP155127	Tree Blockage				76:53:01	39:12:07
LP155128	Pond Site				76:53:03	39:12:08
LP155129	Pipe Outfall	5	1	1	76:49:18	39:12:08
LP155130	Pipe Outfall	4	2	1	76:49:15	39:12:09
LP156105	Tree Blockage				76:52:48	39:12:22
LP156106	Pond Site				76:52:51	39:12:27
LP156107	Pipe Outfall	5	1	1	76:52:42	39:13:49
LP156108	Inadequate Buffer	3	3	1	76:52:52	39:12:31
LP156109	Erosion	3	3	1	76:52:52	39:12:32
LP156110	Pipe Outfall	5	1	1	76:52:46	39:14:50
LP156111	Pipe Outfall	5	1	1	76:52:43	39:17:18
LP156251	Pipe Outfall	4	2	1	76:52:42	39:17:19
LP156252	Representative Site				76:52:25	39:12:28
LP156253	Pipe Outfall	4	2	1	76:52:36	39:17:21
LP157231	Tree Blockage				76:52:32	39:12:46
LP157231	Fish Blockage	5	2	3	76:52:31	39:12:46
LP157232	Pipe Outfall	4	2	2	76:49:04	39:12:13
LP157233	Tree Blockage				76:52:38	39:12:52
LP157234	Pipe Outfall	4	2	3	76:49:16	39:12:17
LP157235	Pipe Outfall	4	2	2	76:49:10	39:12:13
LP157236	Inadequate Buffer	4	2	3	76:52:44	39:12:45
LP157236	Pond Site				76:52:39	39:12:44
LP157237	Inadequate Buffer	3	1	1	76:52:57	39:12:56
LP158201	Pipe Outfall	4	2	2	76:50:18	39:14:41
LP158202	Pipe Outfall	4	2	2	76:50:40	39:14:57
LP158203	Representative Site				76:52:51	39:13:14
LP158204	Pipe Outfall	4	2	2	76:50:54	39:15:22
LP158205	Pipe Outfall	4	2	2	76:50:54	39:15:38
LP158206	Pipe Outfall	4	2	2	76:50:14	39:15:46
LP158220	Inadequate Buffer	4	3	3	76:53:01	39:13:24
LP158221	Channel Alteration	3	4	2	76:52:57	39:13:26
LP158225	Pipe Outfall	5	1	1	76:50:14	39:15:52
LP159207	Pipe Outfall	4	2	2	76:50:17	39:15:58
LP159208	Exposed Pipe	4	3	2	76:52:28	39:13:37
LP159209	Fish Blockage	4	2	2	76:52:31	39:13:39
LP159210	Erosion	3	3	2	76:52:35	39:13:42
LP159211	Pipe Outfall	4	2	1	76:50:52	39:15:59
LP159222	Pipe Outfall	4	2	1	76:50:49	39:15:59
LP159223	Pipe Outfall	5	1	1	76:50:48	39:15:59
LP159224	Erosion	4	3	3	76:52:53	39:13:26
LP160212	Pipe Outfall	4	2	2	76:50:46	39:15:58
LP160213	Pipe Outfall	4	2	2	76:50:41	39:15:59
LP160214	Pipe Outfall	4	2	2	76:50:40	39:15:59
LP161301	Inadequate Buffer	3	2	2	76:52:46	39:14:15
LP162204	Inadequate Buffer	1	2	3	76:52:45	39:14:43
LP162205	Pipe Outfall	4	2	3	76:50:52	39:16:09
LP162205	Exposed Pipe	5	2	3	76:52:46	39:14:50
LP162206	Representative Site				76:52:53	39:15:00

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP162301	Inadequate Buffer	4	2	1	76:52:47	39:14:51
LP163203	Representative Site				76:52:35	39:15:02
LP164202	Tree Blockage				76:52:31	39:15:26
LP169301	Pond Site				76:52:52	39:17:18
LP169302	Pipe Outfall	5	1	1	76:50:55	39:16:08
LP169303	Pipe Outfall	4	2	1	76:50:16	39:16:05
LP169304	Pond Site				76:52:38	39:17:14
LP169305	Exposed Pipe	4	2	2	76:52:44	39:17:21
LP169305	Pond Site				76:52:46	39:17:21
LP169306	Pipe Outfall	5	1	1	76:50:51	39:16:33
LP169307	Pipe Outfall	4	2	1	76:50:30	39:16:30
LP169308	Unusual Condition	4	4	2	76:52:31	39:17:25
LP170301	Pond Site				76:53:03	39:17:32
LP170302	Pond Site				76:53:00	39:17:36
LP170303	Pond Site				76:52:55	39:17:26
LP170304	Pond Site				76:52:44	39:17:27
LP172102	Pond Site				76:52:33	39:18:15
LP175112	Erosion	4	3	1	76:53:08	39:12:20
LP175113	Inadequate Buffer	3	3	1	76:53:08	39:12:21
LP176114	Pipe Outfall	5	1	1	76:52:31	39:17:23
LP176115	Pipe Outfall	5	1	1	76:53:09	39:12:24
LP176116	Channel Alteration	2	4	1	76:53:09	39:12:25
LP176117	Pipe Outfall	3	2	1	76:53:09	39:12:25
LP176118	Pipe Outfall	5	1	1	76:53:07	39:12:27
LP180215	Pond Site				76:53:15	39:13:59
LP180216	Pond Site				76:53:12	39:14:02
LP180217	Pond Site				76:53:18	39:13:56
LP181301	Pond Site				76:53:34	39:14:27
LP181302	Unusual Condition	4	4	3	76:53:30	39:14:26
LP182301	Pond Site				76:53:26	39:14:43
LP189301	Pond Site				76:53:28	39:17:17
LP189302	Representative Site				76:53:33	39:17:22
LP189303	Unusual Condition	4	4	2	76:53:31	39:17:24
LP189304	Pond Site				76:53:31	39:17:23
LP190301	Pond Site				76:53:12	39:17:30
LP192101	Pond Site				76:53:15	39:18:25
LP19303	Pipe Outfall	5	1	1	76:51:31	39:14:51
LP19304	Pipe Outfall	4	2	2	76:51:09	39:14:54
LP196101	Pond Site				76:54:17	39:18:04
LP196102	Pipe Outfall	4	2	1	76:50:29	39:16:30
LP196103	Representative Site				76:54:22	39:18:07
LP196104	Pipe Outfall	4	2	1	76:50:29	39:16:32
LP197110	Pond Site				76:54:28	39:18:21
LP197111	Pond Site				76:54:19	39:18:18
LP197112	Inadequate Buffer	3	3	1	76:53:58	39:18:29
LP197113	Fish Blockage	5	1	1	76:53:57	39:18:28
LP197114	Fish Blockage	5	1	1	76:53:58	39:18:30
LP197115	Fish Blockage	2	4	1	76:53:55	39:18:26
LP198102	Pond Site				76:54:00	39:18:48
LP198104	Pipe Outfall	4	2	1	76:50:28	39:16:50
LP198115	Pond Site				76:53:59	39:18:41

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP199103	Inadequate Buffer	4	2	2	76:50:44	39:17:25
LP199104	Representative Site				76:54:24	39:18:58
LP203105	Erosion	4	3	3	76:54:55	39:18:24
LP203106	Pond Site				76:54:59	39:18:21
LP203107	Representative Site				76:54:57	39:18:21
LP203108	Pipe Outfall	5	1	1	76:50:27	39:16:50
LP203109	Pond Site				76:54:37	39:18:22
LP205105	Representative Site				76:54:59	39:19:06
LP205106	Pond Site				76:54:45	39:18:58
LP205107	Pond Site				76:54:42	39:18:59
LP205108	Pond Site				76:54:36	39:18:56
LP205109	Pond Site				76:55:05	39:19:02
LP21301	Pipe Outfall	4	3	3	76:49:27	39:13:19
LP21303	Pipe Outfall	3	3	1	76:49:17	39:13:28
LP21306	Pipe Outfall	4	3	1	76:49:17	39:13:28
LP21308	Pipe Outfall	4	2	2	76:49:06	39:13:40
LP22304	Pipe Outfall	5	1	2	76:49:08	39:13:39
LP22308	Pipe Outfall	2	3	3	76:49:13	39:13:40
LP22309	Pipe Outfall	5	1	2	76:49:17	39:13:46
LP22330	Pipe Outfall	3	3	1	76:49:26	39:13:49
LP22331	Pipe Outfall	5	3	1	76:49:08	39:13:49
LP22332	Pipe Outfall	5	3	1	76:49:06	39:13:51
LP23305	Pipe Outfall	4	3	3	76:49:01	39:13:48
LP23308	Pipe Outfall	4	3	3	76:49:25	39:13:54
LP23312	Pipe Outfall	3	3	1	76:49:22	39:14:04
LP23313	Pipe Outfall	4	3	1	76:48:47	39:14:10
LP24302	Pipe Outfall	4	2	2	76:48:47	39:14:14
LP24305	Pipe Outfall	5	1	2	76:48:49	39:14:33
LP24306	Pipe Outfall	5	1	2	76:49:03	39:14:36
LP24309	Pipe Outfall	5	1	2	76:49:14	39:14:33
LP24310	Pipe Outfall	5	1	2	76:49:14	39:14:32
LP24311	Pipe Outfall	5	1	2	76:48:48	39:14:54
LP24312	Pipe Outfall	5	1	2	76:48:49	39:14:54
LP25302	Pipe Outfall	5	1	2	76:48:49	39:14:57
LP28303	Pipe Outfall	4	5	1	76:50:59	39:11:55
LP28308	Pipe Outfall	4	2	2	76:51:02	39:11:55
LP28310	Pipe Outfall	4	5	1	76:51:32	39:11:55
LP28311	Pipe Outfall	4	3	1	76:51:23	39:12:05
LP29304	Pipe Outfall	5	1	3	76:51:28	39:12:16
LP29306	Pipe Outfall	5	1	2	76:51:29	39:12:16
LP30301	Pipe Outfall	4	3	2	76:50:58	39:12:18
LP30310	Pipe Outfall	4	2	2	76:51:16	39:12:41
LP30312	Pipe Outfall	4	2	2	76:51:16	39:13:03
LP30316	Pipe Outfall	4	2	1	76:51:27	39:12:45
LP30329	Pipe Outfall	4	3	1	76:50:58	39:12:46
LP31304	Pipe Outfall	4	3	1	76:51:05	39:12:46
LP32207	Pipe Outfall	4	2	1	76:51:06	39:12:48
LP32309	Pipe Outfall	4	2	1	76:51:29	39:13:23
LP37301	Pipe Outfall	4	2	2	76:51:16	39:14:59
LP37302	Pipe Outfall	3	2	2	76:51:35	39:14:54
LP37304	Pipe Outfall	5	1	2	76:51:14	39:15:00

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP37310	Pipe Outfall	4	2	2	76:51:18	39:15:05
LP37311	Pipe Outfall	5	1	2	76:51:27	39:15:09
LP38302	Pipe Outfall	2	3	2	76:51:29	39:15:09
LP38304	Pipe Outfall	3	2	2	76:51:34	39:15:11
LP38309	Pipe Outfall	5	1	1	76:51:35	39:15:13
LP38310	Pipe Outfall	5	1	1	76:51:20	39:15:23
LP38313	Pipe Outfall	3	3	1	76:51:21	39:15:44
LP38316	Pipe Outfall	5	1	1	76:51:28	39:15:47
LP38320	Pipe Outfall	4	3	3	76:51:35	39:15:44
LP38321	Pipe Outfall	3	3	3	76:51:38	39:15:41
LP39302	Pipe Outfall	4	4	2	76:51:18	39:16:16
LP39304	Pipe Outfall	4	3	1	76:50:57	39:16:09
LP39306	Pipe Outfall	4	4	1	76:48:28	39:08:27
LP39307	Pipe Outfall	5	3	3	76:48:28	39:08:28
LP39313	Pipe Outfall	3	3	1	76:51:27	39:16:24
LP39316	Pipe Outfall	4	3	1	76:51:24	39:16:21
LP39317	Pipe Outfall	4	2	1	76:51:24	39:16:22
LP39318	Pipe Outfall	4	2	2	76:48:34	39:08:23
LP40301	Pipe Outfall	4	2	1	76:51:02	39:16:52
LP40303	Pipe Outfall	4	3	1	76:51:19	39:17:21
LP40308	Pipe Outfall	4	2	2	76:51:19	39:17:25
LP40309	Pipe Outfall	4	3	1	76:51:34	39:17:18
LP40311	Pipe Outfall	5	1	2	76:51:36	39:17:18
LP40317	Pipe Outfall	4	1	2	76:51:13	39:17:05
LP40318	Pipe Outfall	4	1	2	76:51:21	39:17:26
LP40319	Pipe Outfall	5	1	2	76:51:21	39:17:27
LP40320	Pipe Outfall	5	1	2	76:51:20	39:17:28
LP40323	Pipe Outfall	5	1	2	76:51:38	39:17:31
LP40324	Pipe Outfall	4	2	2	76:52:09	39:10:29
LP40325	Pipe Outfall	4	2	3	76:52:08	39:10:31
LP41301	Pipe Outfall	5	2	1	76:52:08	39:10:30
LP41302	Pipe Outfall	4	2	1	76:51:49	39:10:33
LP41305	Pipe Outfall	4	2	3	76:52:03	39:11:00
LP41306	Pipe Outfall	4	3	1	76:52:16	39:11:00
LP41308	Pipe Outfall	4	3	1	76:51:43	39:11:32
LP41310	Pipe Outfall	4	2	1	76:52:07	39:11:19
LP41314	Pipe Outfall	4	2	2	76:51:48	39:11:49
LP41315	Pipe Outfall	4	2	2	76:51:48	39:11:48
LP41317	Pipe Outfall	4	2	2	76:52:06	39:12:16
LP41319	Pipe Outfall	4	2	2	76:52:15	39:12:30
LP41323	Pipe Outfall	4	2	2	76:52:18	39:12:30
LP41324	Pipe Outfall	4	2	2	76:51:55	39:12:40
LP41327	Pipe Outfall	4	2	2	76:49:58	39:08:56
LP42301	Pipe Outfall	4	3	2	76:51:54	39:12:40
LP42302	Pipe Outfall	4	3	2	76:52:04	39:12:42
LP42303	Pipe Outfall	4	3	2	76:52:21	39:13:26
LP42307	Pipe Outfall	4	2	2	76:52:22	39:13:26
LP42309	Pipe Outfall	4	2	2	76:52:23	39:13:22
LP42311	Pipe Outfall	4	2	2	76:49:34	39:08:58
LP42313	Pipe Outfall	4	2	1	76:49:38	39:10:24
LP42314	Pipe Outfall	5	1	1	76:49:54	39:10:40

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP42315	Pipe Outfall	4	2	1	76:49:55	39:10:45
LP42316	Pipe Outfall	3	2	1	76:49:58	39:10:47
LP42318	Pipe Outfall	3	2	1	76:49:58	39:10:51
LP42319	Pipe Outfall	4	2	2	76:49:43	39:10:50
LP42320	Pipe Outfall	4	2	1	76:50:12	39:10:39
LP42321	Pipe Outfall	4	2	1	76:49:57	39:10:55
LP42322	Pipe Outfall	4	2	2	76:49:55	39:11:00
LP42324	Pipe Outfall	4	2	2	76:49:44	39:11:00
LP42325	Pipe Outfall	3	2	2	76:49:38	39:11:00
LP42326	Pipe Outfall	4	2	2	76:49:38	39:11:01
LP42327	Pipe Outfall	5	1	2	76:49:45	39:10:54
LP43302	Pipe Outfall	4	2	1	76:49:37	39:11:06
LP43303	Pipe Outfall	4	2	1	76:49:58	39:08:56
LP43305	Pipe Outfall	5	3	1	76:49:39	39:11:08
LP43306	Pipe Outfall	5	3	1	76:49:44	39:11:12
LP43307	Pipe Outfall	3	3	1	76:49:44	39:11:13
LP43308	Pipe Outfall	5	3	1	76:49:53	39:11:14
LP44311	Pipe Outfall	5	3	1	76:49:51	39:11:15
LP44313	Pipe Outfall	5	3	1	76:50:04	39:11:08
LP44314	Pipe Outfall	3	3	1	76:50:07	39:11:35
LP44316	Pipe Outfall	5	3	1	76:50:05	39:11:32
LP44330	Pipe Outfall	3	2	1	76:50:06	39:11:25
LP44332	Pipe Outfall	5	1	1	76:49:37	39:11:21
LP45302	Pipe Outfall	5	3	1	76:49:55	39:11:21
LP45303	Pipe Outfall	5	3	1	76:49:44	39:11:39
LP46302	Pipe Outfall	5	1	1	76:49:44	39:11:40
LP46306	Pipe Outfall	5	1	2	76:49:53	39:11:49
LP46308	Pipe Outfall	5	1	1	76:49:53	39:11:48
LP46309	Pipe Outfall	5	1	1	76:50:09	39:11:41
LP47301	Pipe Outfall	5	1	2	76:50:08	39:11:40
LP47302	Pipe Outfall	5	1	2	76:50:11	39:12:18
LP47303	Pipe Outfall	5	1	2	76:49:51	39:12:03
LP49501	Fish Barrier	5	1	2	76:49:51	39:08:05
LP49501	Comment				76:49:51	39:08:05
LP51105	Pipe Outfall	4	1	1	76:51:24	39:13:13
LP51106	Pipe Outfall	4	1	1	76:51:22	39:13:10
LP51331	Pipe Outfall	5	5	3	76:51:19	39:13:08
LP55201	Pipe Outfall	4	2	2	76:51:05	39:13:42
LP56301	Pipe Outfall	5	1	1	76:51:05	39:13:41
LP56303	Pipe Outfall	5	1	1	76:51:05	39:13:42
LP56305	Pipe Outfall	4	2	1	76:51:05	39:13:42
LP56307	Pipe Outfall	5	1	1	76:50:57	39:13:40
LP56321	Pipe Outfall	4	2	1	76:51:21	39:13:40
LP56340	Pipe Outfall	5	1	1	76:50:57	39:13:41
LP57310	Pipe Outfall	5	1	1	76:51:09	39:13:56
LP57311	Pipe Outfall	4	2	1	76:51:28	39:13:38
LP57316	Pipe Outfall	5	1	1	76:51:25	39:13:39
LP57317	Pipe Outfall	5	1	1	76:51:05	39:13:58
LP57318	Pipe Outfall	5	1	1	76:51:05	39:13:58
LP57319	Pipe Outfall	3	2	1	76:51:06	39:13:58
LP57322	Pipe Outfall	5	1	1	76:51:29	39:13:56

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP57325	Pipe Outfall	5	1	1	76:51:35	39:13:57
LP57326	Pipe Outfall	5	1	1	76:51:16	39:14:09
LP57327	Pipe Outfall	5	1	1	76:51:12	39:14:08
LP57332	Pipe Outfall	5	1	1	76:52:10	39:13:47
LP57334	Pipe Outfall	5	1	1	76:52:09	39:13:46
LP57336	Pipe Outfall	5	1	1	76:52:11	39:13:32
LP58320	Pipe Outfall	4	2	2	76:50:58	39:14:25
LP58323	Pipe Outfall	5	1	1	76:51:00	39:14:26
LP58325	Pipe Outfall	4	2	1	76:51:06	39:14:27
LP58333	Pipe Outfall	5	1	1	76:51:07	39:14:27
LP58337	Pipe Outfall	5	1	1	76:52:20	39:13:34
LP59302	Pipe Outfall	4	5	1	76:51:07	39:14:27
LP59303	Pipe Outfall	5	5	1	76:51:07	39:14:27
LP59306	Pipe Outfall	4	5	1	76:48:40	39:12:53
LP59307	Pipe Outfall	4	5	1	76:48:36	39:12:59
LP59313	Pipe Outfall	5	5	1	76:54:15	39:18:05
LP59314	Pipe Outfall	5	5	1	76:54:25	39:18:09
LP60222	Pipe Outfall	4	2	1	76:52:46	39:13:21
LP60314	Pipe Outfall	4	4	1	76:53:55	39:18:46
LP60315	Pipe Outfall	4	4	1	76:54:51	39:18:12
LP61214	Pipe Outfall	4	2	1	76:52:43	39:13:22
LP61215	Pipe Outfall	4	2	1	76:52:43	39:13:25
LP61216	Pipe Outfall	4	2	1	76:52:37	39:13:34
LP61217	Pipe Outfall	4	2	1	76:52:38	39:13:42
LP61218	Pipe Outfall	4	2	1	76:52:59	39:13:29
LP61219	Pipe Outfall	4	2	1	76:52:57	39:13:29
LP61320	Pipe Outfall	4	2	1	76:52:21	39:13:29
LP61323	Pipe Outfall	5	1	1	76:52:20	39:13:28
LP61324	Pipe Outfall	4	2	2	76:52:20	39:13:38
LP61325	Pipe Outfall	5	1	1	76:52:20	39:13:40
LP61327	Pipe Outfall	5	1	1	76:50:41	39:16:57
LP62205	Pipe Outfall	4	2	2	76:49:51	39:12:04
LP63206	Pipe Outfall	4	2	2	76:50:13	39:12:27
LP63301	Pipe Outfall	4	2	2	76:49:58	39:12:26
LP63303	Pipe Outfall	4	2	2	76:49:59	39:12:27
LP63305	Pipe Outfall	4	2	2	76:50:08	39:12:24
LP63308	Pipe Outfall	4	2	1	76:50:12	39:12:30
LP63310	Pipe Outfall	4	2	1	76:50:11	39:12:21
LP63311	Pipe Outfall	4	2	1	76:49:35	39:12:29
LP64201	Pipe Outfall	4	2	2	76:49:38	39:12:27
LP64202	Pipe Outfall	4	2	2	76:49:43	39:12:31
LP64203	Pipe Outfall	4	2	2	76:49:45	39:12:28
LP64301	Pipe Outfall	4	2	2	76:49:59	39:13:31
LP64302	Pipe Outfall	4	2	3	76:50:04	39:13:35
LP64304	Pipe Outfall	4	2	2	76:49:37	39:12:25
LP64306	Pipe Outfall	4	2	2	76:50:02	39:13:03
LP64307	Pipe Outfall	5	1	1	76:50:05	39:13:05
LP64308	Pipe Outfall	5	1	1	76:49:31	39:13:19
LP64309	Pipe Outfall	4	2	2	76:49:33	39:13:19
LP65301	Pipe Outfall	5	1	1	76:49:34	39:13:19
LP65302	Pipe Outfall	5	1	1	76:49:42	39:13:22

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP65304	Pipe Outfall	5	1	1	76:49:46	39:13:25
LP65307	Pipe Outfall	4	2	2	76:49:55	39:13:26
LP65308	Pipe Outfall	5	1	2	76:50:06	39:13:33
LP65309	Pipe Outfall	3	3	2	76:50:07	39:13:33
LP66103	Pipe Outfall	5	1	1	76:50:13	39:13:30
LP66104	Pipe Outfall	5	1	1	76:50:00	39:13:40
LP66105	Pipe Outfall	5	1	1	76:49:52	39:13:43
LP66106	Pipe Outfall	5	1	1	76:49:52	39:13:43
LP66107	Pipe Outfall	5	1	1	76:49:50	39:13:42
LP66108	Pipe Outfall	4	2	2	76:49:47	39:14:09
LP66301	Pipe Outfall	4	2	2	76:49:47	39:14:08
LP66302	Pipe Outfall	5	1	1	76:49:45	39:14:07
LP66305	Pipe Outfall	5	1	1	76:49:53	39:13:42
LP67220	Pipe Outfall	4	2	2	76:49:09	39:12:35
LP67304	Pipe Outfall	4	2	2	76:49:35	39:13:56
LP67305	Pipe Outfall	4	2	2	76:49:36	39:13:57
LP67308	Pipe Outfall	4	2	1	76:49:38	39:14:00
LP68206	Pipe Outfall	5	2	2	76:49:16	39:12:22
LP68208	Pipe Outfall	5	2	2	76:49:27	39:12:30
LP68211	Pipe Outfall	5	2	1	76:49:26	39:12:30
LP68212	Pipe Outfall	5	2	2	76:49:13	39:12:37
LP69204	Pipe Outfall	5	2	2	76:49:25	39:12:24
LP69207	Pipe Outfall	4	2	2	76:49:27	39:12:23
LP69217	Pipe Outfall	4	2	2	76:49:29	39:12:24
LP70222	Pipe Outfall	4	2	2	76:49:27	39:12:34
LP71227	Pipe Outfall	4	2	2	76:49:22	39:12:46
LP72229	Pipe Outfall	4	2	2	76:49:22	39:12:45
LP72230	Pipe Outfall	4	2	2	76:49:17	39:12:48
LP72231	Pipe Outfall	4	2	2	76:49:14	39:12:52
LP72232	Pipe Outfall	4	2	2	76:49:02	39:12:47
LP72233	Pipe Outfall	3	3	1	76:50:29	39:16:52
LP72234	Pipe Outfall	4	2	2	76:49:17	39:12:44
LP72236	Pipe Outfall	4	2	2	76:49:25	39:12:47
LP74208	Pipe Outfall	5	1	2	76:49:04	39:12:44
LP74210	Pipe Outfall	5	1	2	76:49:01	39:12:43
LP74211	Pipe Outfall	3	3	2	76:48:57	39:12:46
LP74213	Pipe Outfall	5	1	1	76:48:54	39:12:47
LP75201	Pipe Outfall	5	1	1	76:48:51	39:12:49
LP75202	Pipe Outfall	5	1	1	76:49:08	39:13:01
LP75205	Pipe Outfall	5	1	1	76:48:58	39:13:13
LP75206	Pipe Outfall	4	2	1	76:48:58	39:13:14
LP79305	Pipe Outfall	3	2	4	76:48:35	39:13:40
LP79306	Pipe Outfall	3	5	4	76:48:25	39:13:40
LP79308	Pipe Outfall	4	5	1	76:48:22	39:13:39
LP80202	Pipe Outfall	5	2	1	76:48:08	39:13:42
LP80204	Pipe Outfall	5	2	2	76:48:16	39:13:54
LP80205	Pipe Outfall	5	1	1	76:48:23	39:13:49
LP80211	Pipe Outfall	5	1	1	76:48:25	39:13:50
LP80303	Pipe Outfall	4	5	1	76:48:43	39:14:00
LP81212	Pipe Outfall	4	2	2	76:48:44	39:14:04
LP81216	Pipe Outfall	4	2	1	76:48:44	39:14:05

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP82341	Pipe Outfall	5	1	1	76:48:38	39:14:19
LP82342	Pipe Outfall	3	2	1	76:48:39	39:14:21
LP82344	Pipe Outfall	5	1	1	76:48:24	39:14:15
LP82346	Pipe Outfall	5	1	1	76:48:19	39:14:12
LP82353	Pipe Outfall	5	5	1	76:48:19	39:14:36
LP82354	Pipe Outfall	5	1	1	76:48:39	39:14:40
LP8302	Pipe Outfall	5	3	1	76:49:20	39:13:17
LP83303	Pipe Outfall	5	1	2	76:52:21	39:13:47
LP83305	Pipe Outfall	4	2	2	76:51:47	39:13:59
LP83306	Pipe Outfall	5	1	2	76:52:11	39:13:55
LP84117	Pipe Outfall	5	1	1	76:52:11	39:13:52
LP84310	Pipe Outfall	4	5	1	76:49:07	39:12:26
LP84311	Pipe Outfall	4	5	2	76:49:02	39:12:32
LP84316	Pipe Outfall	5	1	1	76:52:21	39:13:49
LP84317	Pipe Outfall	5	1	1	76:52:03	39:14:46
LP84318	Pipe Outfall	5	1	1	76:52:04	39:15:06
LP84319	Pipe Outfall	5	1	1	76:52:04	39:15:02
LP85118	Pipe Outfall	4	2	1	76:52:04	39:15:00
LP85119	Pipe Outfall	4	2	1	76:51:54	39:15:50
LP85122	Pipe Outfall	4	2	1	76:51:45	39:15:46
LP85123	Pipe Outfall	5	1	1	76:51:43	39:15:37
LP85124	Pipe Outfall	5	1	1	76:51:45	39:15:37
LP85125	Pipe Outfall	5	1	1	76:52:18	39:16:01
LP85127	Pipe Outfall	5	1	1	76:52:18	39:16:04
LP85129	Pipe Outfall	5	1	1	76:52:14	39:16:14
LP85133	Pipe Outfall	5	1	1	76:52:15	39:16:14
LP85135	Pipe Outfall	5	1	1	76:51:41	39:16:19
LP85136	Pipe Outfall	5	1	1	76:50:54	39:11:42
LP85211	Pipe Outfall	4	2	1	76:52:00	39:16:15
LP85213	Pipe Outfall	4	2	1	76:52:12	39:16:21
LP86201	Pipe Outfall	4	2	1	76:52:08	39:16:25
LP86203	Pipe Outfall	5	2	1	76:52:08	39:16:25
LP86205	Pipe Outfall	4	2	1	76:52:04	39:16:27
LP86207	Pipe Outfall	4	2	1	76:51:53	39:16:28
LP86208	Pipe Outfall	4	2	1	76:51:44	39:16:21
LP86223	Pipe Outfall	4	2	1	76:51:51	39:16:21
LP86230	Pipe Outfall	4	2	2	76:51:52	39:16:21
LP86231	Pipe Outfall	4	2	2	76:52:07	39:16:45
LP87236	Pipe Outfall	4	2	1	76:52:09	39:16:47
LP88226	Pipe Outfall	5	2	1	76:52:00	39:16:57
LP88228	Pipe Outfall	4	2	2	76:52:02	39:17:01
LP88229	Pipe Outfall	5	1	1	76:51:41	39:16:53
LP88230	Pipe Outfall	5	2	1	76:51:58	39:17:08
LP88231	Pipe Outfall	5	2	1	76:51:41	39:17:19
LP88234	Pipe Outfall	5	1	2	76:52:09	39:17:15
LP90204	Pipe Outfall	4	2	2	76:49:55	39:14:16
LP90205	Pipe Outfall	4	2	2	76:49:53	39:14:17
LP90207	Pipe Outfall	4	2	2	76:49:52	39:14:17
LP90211	Pipe Outfall	4	2	2	76:49:53	39:14:18
LP9101	Pipe Outfall	5	2	1	76:50:44	39:17:19
LP9102	Pipe Outfall	4	1	1	76:48:38	39:07:40

Appendix B-Little Patuxent Watershed

Site #	Problem	Severity	Correctability	Access	Latitude	Longitude
LP9103	Pipe Outfall	5	1	1	76:48:32	39:07:51
LP9104	Pipe Outfall	5	1	1	76:48:30	39:07:54
LP91123	Pipe Outfall	4	2	1	76:49:52	39:14:18
LP91124	Pipe Outfall	5	1	1	76:49:47	39:14:17
LP91125	Pipe Outfall	4	2	1	76:49:54	39:14:28
LP91131	Pipe Outfall	4	2	1	76:49:49	39:14:14
LP9122	Pipe Outfall	4	2	1	76:48:26	39:07:59
LP93106	Pipe Outfall	4	2	1	76:49:48	39:14:11
LP93203	Pipe Outfall	5	1	1	76:48:53	39:13:16
LP93204	Pipe Outfall	5	1	1	76:48:57	39:13:15
LP94109	Pipe Outfall	4	2	1	76:49:55	39:14:51
LP95113	Pipe Outfall	4	2	1	76:49:34	39:14:47
LP96102	Pipe Outfall	4	2	1	76:49:33	39:14:47
LP96224	Pipe Outfall	4	2	2	76:49:08	39:12:41
LP96225	Pipe Outfall	4	2	2	76:48:54	39:13:22
LP96226	Pipe Outfall	4	2	2	76:49:03	39:13:10
LP97114	Pipe Outfall	5	1	2	76:49:41	39:14:35
LP97116	Pipe Outfall	4	2	2	76:49:50	39:15:13
LP97117	Pipe Outfall	5	1	2	76:49:55	39:15:14
LP97118	Pipe Outfall	4	2	2	76:50:07	39:14:58
LP97119	Pipe Outfall	4	2	2	76:49:42	39:15:17
LP97120	Pipe Outfall	4	2	1	76:50:11	39:14:54
LP97121	Pipe Outfall	4	2	2	76:49:51	39:15:15
LP97123	Pipe Outfall	5	1	2	76:49:56	39:15:27
LP97228	Pipe Outfall	4	2	2	76:49:05	39:13:08
LP98101	Pipe Outfall	4	2	1	76:50:11	39:15:42
LP98241	Pipe Outfall	5	1	1	76:49:11	39:13:08
LP98242	Pipe Outfall	5	1	2	76:49:11	39:13:08
LP98243	Pipe Outfall	5	1	2	76:49:12	39:13:08
LP99248	Pipe Outfall	5	1	2	76:49:10	39:13:24
LP99249	Pipe Outfall	5	1	2	76:49:13	39:13:23
LP99250	Pipe Outfall	4	2	2	76:49:14	39:13:23
LP99251	Pipe Outfall	4	2	2	76:49:17	39:13:23
LP99253	Pipe Outfall	5	1	2	76:49:17	39:13:23

APPENDIX C

Listing of sites by problem category

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP110234	Sewage	Manhole		0	Sewage	Yes	Gray	Sewage	1	5	2
Pipe Outfall	LP022308	Unknown	Plastic	Right Bank	3	Unknown	Yes	Grey	Sewage	2	3	3
Pipe Outfall	LP038302	Stormwater	Corrugated Metal	Right bank	12	Stormwater	Yes	Milky	Rotten	2	3	2
Pipe Outfall	LP009122	Head of stream	Concrete pipe	Head of stream	36	Head of stream	Yes	Brown	None	3	2	1
Pipe Outfall	LP010113	Unknown	Concrete pipe	Left bank	60	Unknown	Yes	Creamy	None	3	4	2
Pipe Outfall	LP012106	Head of stream	Concrete pipe	Head of stream	48	Head of stream	Yes	Brown	None	3	2	1
Pipe Outfall	LP021301	Stormwater	Concrete Pipe	Head of Stream	36	Stormwater	Yes	Orange	None	3	3	3
Pipe Outfall	LP021303	Stormwater	Concrete Pipe	Head of Stream	36	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP022330	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP023312	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP028311	Stormwater	Concrete pipe	other	14	Stormwater	Yes	Orange	None	3	3	1
Pipe Outfall	LP037302	Stormwater	Corrugated Metal	Head of stream	24	Stormwater	Yes	Cloudy grey	None	3	2	2
Pipe Outfall	LP038304	Stormwater	Corrugated Metal	Head of stream	60	Stormwater	Yes	Cloudy	None	3	2	2
Pipe Outfall	LP038313	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Black	Oily	3	3	1
Pipe Outfall	LP038321	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Medium	None	3	3	3
Pipe Outfall	LP042302	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	3	3	2
Pipe Outfall	LP042316	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Green Brown	None	3	2	1
Pipe Outfall	LP042318	Stormwater	Concrete Pipe	Head of stream	30	Stormwater	Yes	Gray Brown	None	3	2	1
Pipe Outfall	LP042322	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Dark gray	None	3	2	2
Pipe Outfall	LP043307	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP044314	Stormwater	Corrugated Metal		14	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP044330	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Medium	None	3	2	1
Pipe Outfall	LP057319	Stormwater	Corrugated metal	Right bank	12	Stormwater	Yes	Orange	None	3	2	1
Pipe Outfall	LP065309	Stormwater	JConcrete Pipe	Left bank	24	Stormwater	Yes	Clear	Metallic	3	3	2
Pipe Outfall	LP072233	Stormwater	Concrete Pipe	Right bank	60	Stormwater	Yes	Smokey,Filmy	Chemical	3	3	1
Pipe Outfall	LP074211	Stormwater	Corrugated Metal	Left bank	36	Stormwater	Yes	Clear	musty	3	3	2
Pipe Outfall	LP079305	Stormwater	Earth Channel	Left bank		Stormwater	Yes	Medium	None	3	2	4
Pipe Outfall	LP079306	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Medium	None	3	5	4
Pipe Outfall	LP082342	Stormwater	Corrugated Metal	Left bank	18	Stormwater	Yes	Clear	Sewage	3	2	1
Pipe Outfall	LP111208	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Gray	None	3	2	1
Pipe Outfall	LP119301	Stormwater	Concrete pipe	Left bank	18	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP141310	Stormwater	Concrete pipe	Right bank	24	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP141311	Stormwater	Concrete pipe	Head of stream	24	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP142302	Stormwater	Concrete pipe	Left bank	24	Stormwater	Yes	Medium	None	3	3	1
Pipe Outfall	LP142309	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Medium	None	3	3	2
Pipe Outfall	LP144302	Stormwater	Concrete Pipe	Right bank	15	Stormwater	Yes	Clear	Round-up	3	3	1
Pipe Outfall	LP144304	Stormwater	Corrugated Metal	Head of stream	24	Stormwater	Yes	Medium	None	3	3	3
Pipe Outfall	LP176117	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Milky	None	3	2	1
Pipe Outfall	LP012118	Stormwater	Concrete pipe	Right bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP019304	Stormwater	Corrugated Metal	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP021308	Stormwater	Concrete Pipe	Head of stream	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP023313	Stormwater	Corrugated Metal	Right bank	12	Stormwater	Yes	Clear	None	4	3	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP024302	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP028303	Stormwater	Concrete pipe	Head of stream	42	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP028308	Stormwater	Concrete channel	Right bank	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP028310	Stormwater	Concrete pipe	Head of stream	18	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP030301	Stormwater	Plastic	Right bank	4	Stormwater	Yes	Clear	None	4	3	2
Pipe Outfall	LP030310	Stormwater	Corrugated metal	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP030329	Stormwater	Concrete pipe	Right bank	18	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP031304	Stormwater	concret pipe	Left bank	12	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP032207	Stormwater	Corrugated metal	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP032309	Stormwater	Concrete pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP037301	Stormwater	Corrugated Metal	Head of stream	48	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP037310	Stormwater	Corrugated Metal	Head of stream	96	Unknown	Yes	Clear	None	4	2	2
Pipe Outfall	LP038320	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	3	3
Pipe Outfall	LP039302	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	4	2
Pipe Outfall	LP039304	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP039313	Stormwater	Corrugated Metal	Right bank	18	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP039316	Stormwater	Concrete Pipe	Right bank	15	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP039317	Stormwater	Concrete Pipe	Head of stream	15	Water Supply	Yes	Clear	None	4	2	1
Pipe Outfall	LP039318	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP040301	Stormwater	Concrete Pipe	Left bank	15	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP040303	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP040308	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP040309	Stormwater	Concrete Pipe	Right bank	36	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP040325	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	3
Pipe Outfall	LP041302	Stormwater	Concrete Pipe	Right bank	15	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP041305	Stormwater	Concrete Pipe	Left bank	15	Stormwater	Yes	Clear	None	4	2	3
Pipe Outfall	LP041306	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP041308	Stormwater	Corrugated Metal	Head of stream	18	Stormwater	Yes	Clear	None	4	3	1
Pipe Outfall	LP041310	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP041314	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP041315	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP041317	Stormwater	Concrete Pipe	Left bank	15	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP041319	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP041323	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP041324	Stormwater	Corrugated Metal	Head of stream	60	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP041327	Stormwater	Concrete Pipe	Left bank	16	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP042301	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	3	2
Pipe Outfall	LP042303	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	3	2
Pipe Outfall	LP042311	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP042313	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP042315	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP042319	Stormwater	Concrete Pipe	Left bank	15	Stormwater	Yes	Clear	None	4	2	2

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP042320	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP042321	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP042324	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP042325	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Gray	None	4	2	2
Pipe Outfall	LP042326	Stormwater	Concrete Pipe	Head of stream	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP043302	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP043303	Stormwater	Concrete Pipe	Left bank	6	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP043341	Stormwater	Corrugated Metal	Head of stream	14	Stormwater	Yes	Clear	None	4	4	1
Pipe Outfall	LP051105	stomwater	Concrete pipe	Right bank	24	Stormwater	Yes	Clear	None	4	1	1
Pipe Outfall	LP051106	Stormwater	galvanized pipe	Right bank	24	Stormwater	Yes	Clear	None	4	1	1
Pipe Outfall	LP055201	Stormwater	Corrugated metal	Head of stream	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP056305	Stormwater	Corrugated metal	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP056321	Stormwater	Concrete pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP057311	Stormwater	Corrugated metal	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP058320	Stormwater	Concrete pipe	Right bank	14	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP058325	Stormwater	Concrete pipe	Head of stream	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP059302	Stormwater	Corrugated metal	Right bank	12	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP059306	Stormwater	Corrugated Metal	Head of stream	12	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP059307	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP060222	Stormwater	Concrete Pipe	Left bank	27	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP060314	Stormwater	Corrugated Metal	Right bank	14	Stormwater	Yes	Clear	None	4	4	1
Pipe Outfall	LP060315	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	4	1
Pipe Outfall	LP061214	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP061215	Stormwater	Concrete Pipe	Right bank	21	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP061216	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP061217	Stormwater	Concrete Pipe	Right bank	15	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP061218	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP061320	Stormwater	Concrete Pipe	Head of stream	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP061324	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP062205	Stormwater	Corrugated Metal	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP063206	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP063301	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP063303	Stormwater	Concrete Pipe	Left bank	48	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP063305	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP063308	Stormwater	Corrugated Metal	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP063310	Stormwater	Concrete Pipe	Right bank	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP063311	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP064201	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP064202	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP064203	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP064301	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP064302	Stormwater	Corrugated Metal	Right bank	12	Stormwater	Yes	Clear	None	4	2	3

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP064304	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP064306	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP064309	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP065307	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP066108	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP066301	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP067220	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP067304	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP067305	Stormwater	Concrete Pipe	Head of stream	30	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP067308	Stormwater	Concrete Pipe	Head of stream	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP069217	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP070222	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP071227	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP072229	Stormwater	Corrugated Metal	Head of stream	72	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP072230	Stormwater	Corrugated Metal	Head of stream	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP072231	Stormwater	Corrguated Metal	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP075206	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP079308	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP080303	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP081212	Stormwater	Plastic	Left bank	8	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP081216	Head of Stream	Concrete Pipe	Head of stream	54	Head of	Yes	Clear	None	4	2	1
Pipe Outfall	LP083305	Stormwater	Corrugated Metal	Left bank	15	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP084310	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	5	1
Pipe Outfall	LP084311	Stormwater	Concrete Pipe	Left bank	14	Stormwater	Yes	Clear	None	4	5	2
Pipe Outfall	LP085118	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP085119	Stormwater	Corrugated Metal	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP085122	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP085211	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP085213	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP086201	Stormwater	Concrete Pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP086205	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP086207	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP086208	Stormwater	Concrete Pipe		36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP086230	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP086231	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP087236	Stormwater	Concrete Pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP088228	Stormwater	Corrugated Metal	Left bank	15	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP090204	Stormwater	Corrugated Metal	Left bank	15	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP090205	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP090207	Stormwater	Concrete Pipe	Right bank	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP090211	Stormwater	Corrugated Metal	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP091123	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP091125	Stormwater	Plastic	Right bank	10	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP091131	Stormwater	Concrete Pipe	Right bank	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP093106	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP094109	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP095113	Stormwater	Corrugated Metal	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP096102	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP096225	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP096226	Stormwater	Concrete Pipe	Right bank	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP097116	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP097118	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP097119	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP097120	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP097121	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP098101	Stormwater	Concrete Pipe	Head of stream	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP099250	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP099251	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP107114	Stormwater	Concrete Pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP108205	Stormwater	Plastic	Right bank	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP109202	Stormwater	Concrete Pipe	Left bank	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP11110	Stormwater	Concrete Pipe	Left bank	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP111119	Stormwater	Concrete Pipe	Right bank	32	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP111207	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP111209	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP112110	Stormwater	Concrete Pipe	Left bank	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP112112	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP113104	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP113105	Stormwater	Plastic	Right bank	6	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP113107	Stormwater	Plastic	Right bank	6	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP113110	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP113111	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP113112	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP113116	Stormwater	Corrugated Metal	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP114101	Unknown	Smooth Metal	Right bank	6	Unknown	Yes	Clear	None	4	2	1
Pipe Outfall	LP114103	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP114104	Stormwater	Plastic	Left bank	6	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP114115	Stormwater	Concrete Pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP114116	Stormwater	Concrete Pipe	Head of stream	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP114119	Stormwater	Corrugated	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP115114	Stormwater	Smooth Metal	Right bank	10	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP115115	Stormwater	Smooth Metal	Right bank	4	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP115116	Stormwater	Smooth Metal	Left bank	10	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP115118	Stormwater	Smooth Metal	Left bank	4	Stormwater	Yes	Clear	None	4	2	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP116103	Stormwater	Corrugated Metal	Right bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117101	Stormwater	Corrugated Metal	Left bank	30	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117103	Stormwater	Corrugated Metal	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117104	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117105	Stormwater	Corrugated metal	Left bank	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117108	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117111	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP117114	Stormwater	Corrugated metal	Left bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP119108	Stormwater	Concrete pipe	Right bank	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP119109	Stormwater	Concrete pipe	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP120110	Stormwater	Concrete pipe	Right bank	18	Stormwater\	Yes	Clear	None	4	2	2
Pipe Outfall	LP121105	Stormwater	Brick pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP121106	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP121107	Stormwater	Concrete pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP122201	Stormwater	Corrugated metal	Left bank	48	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP124109	Sewage overflow	Plastic	Right bank	4	Unknown	Yes	Clear	None	4	2	1
Pipe Outfall	LP124110	Pond outlet	Plastic	Right bank	6	Pond outlet	Yes	Clear	None	4	2	1
Pipe Outfall	LP124112	Other	Smooth metal	Head of stream	4	Head of stream	Yes	Clear	None	4	1	1
Pipe Outfall	LP124301	Stormwater	Corrugated metal	Head of stream	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP129101	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP130201	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP131201	Stormwater	Plastic	Right bank	6	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP132234	Stormwater	Corrugated Metal	Head of stream	48	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP132248	Stormwater	Concrete Pipe	Head of stream	66	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP132249	Stormwater	Concrete Pipe	Left bank	40	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP132250	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP134302	Stormwater	Concrete pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP134304	Stormwater	Concrete pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP135304	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP135305	Stormwater	Corrugated metal	Right bank	36	Stormwater	Yes	Clear	None	4	3	2
Pipe Outfall	LP135306	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	3
Pipe Outfall	LP135307	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	3
Pipe Outfall	LP135310	Stormwater	Corrugated metal	Left bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP135311	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP135312	Stormwater	Concrete pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP136301	Stormwater	Smooth metal	Left bank	6	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP136304	Stormwater	Corrugated metal	Head of stream	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP136305	Stormwater	Concrete pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP136307	Stormwater	Concrete pipe	Head of stream	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP138303	Stormwater	Concrete pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP145311	Stormwater	Corrugated Metal	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP147303	Stormwater	Plastic	Right bank	6	Stormwater	Yes	Clear	None	4	2	2

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP154104	Stormwater	Concrete Pipe	Left bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP154105	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP154106	Stormwater	Concrete Pipe	Head of stream	60	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP154107	Stormwater	Concrete Pipe	Head of stream	48	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP154108	Stormwater	Corrugated Metal	Right bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP154109	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP154113	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP155121	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP155125	Stormwater	Concrete Pipe	Left bank	10	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP155130	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP156251	Stormwater	Corrugated Metal	Right bank	30	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP157232	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP157234	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	3
Pipe Outfall	LP157235	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP158201	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP158202	Stormwater	Concrete Pipe	Left bank	42	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP158204	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP158205	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP158206	Stormwater	Plastic	Right bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP159207	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP159211	Stormwater	Corrugated Metal	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP159222	Stormwater	Concrete Pipe	Head of stream	18	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP160212	Stormwater	Concrete Pipe	Left bank	24	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP160213	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP160214	Stormwater	Concrete Pipe	Left bank	30	Stormwater	Yes	Clear	None	4	2	2
Pipe Outfall	LP162205	Agricultural	Plastic	Right bank	4	Unknown	Yes	Clear	None	4	2	3
Pipe Outfall	LP169303	Stormwater	Corrugated Metal	Head of stream	24	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP169307	Stormwater	Corrugated Metal	Head of stream	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP196102	Stormwater	Corrugated Metal	Right bank	8	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP196104	Stormwater	Concrete Pipe	Right bank	12	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP198104	Stormwater	Concrete Pipe	Left bank	28	Stormwater	Yes	Clear	None	4	2	1
Pipe Outfall	LP008302	Stormwater	Smooth Metal	Head of stream	30	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP009101	Other	Concrete	End of stream	72	Other	Yes	Clear	None	5	2	1
Pipe Outfall	LP009102	Stormwater	Smooth metal	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP009103	Unknown	Smooth metal	Right bank	30	unkown	No			5	1	1
Pipe Outfall	LP009104	Unknown	Smooth metal	Right bank	30	unkown	No			5	1	1
Pipe Outfall	LP010109	Stormwater	Corrugated metal	Right bank	24	Stormwater	No			5	1	3
Pipe Outfall	LP010110	Other	Concrete pipe	Right bank	36	Other	Yes	Clear	None	5	2	1
Pipe Outfall	LP010111	Stormwater	Concrete pipe	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP012105	Stormwater	Concrete pipe	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP019303	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP021306	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	5	3	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP022304	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP022309	Stormwater	Corrugated Metal	Head of stream	12	Stormwater	No			5	1	2
Pipe Outfall	LP022331	Stormwater	Plastic	Right bank	18	Stormwater	No			5	3	1
Pipe Outfall	LP022332	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No		None	5	3	1
Pipe Outfall	LP023305	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	5	3	3
Pipe Outfall	LP023308	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	5	3	3
Pipe Outfall	LP024305	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP024306	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP024309	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP024310	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP024311	Stormwater	Concrete Pipe	Left bank	18	Stormwater	No			5	1	2
Pipe Outfall	LP024312	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP025302	Stormwater	Corrugated Metal	Head of stream	18	Stormwater	No			5	1	2
Pipe Outfall	LP029304	Stormwater	Corrugated metal	Right bank	12	Stormwater	No			5	1	3
Pipe Outfall	LP029306	Stormwater	Corrugated metal	Right bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP030312	Stormwater	Concrete pipe	Right bank	18	Stormwater	Yes	Clear	None	5	2	2
Pipe Outfall	LP030316	Stormwater	Concrete pipe	Right bank	24	Stormwater	Yes	Clear	None	5	2	1
Pipe Outfall	LP037304	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP037311	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP038309	Stormwater	Concrete Pipe	Left bank	36	Stormwater	No			5	1	1
Pipe Outfall	LP038310	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP038316	Stormwater	Concrete Pipe	Right bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP039306	Stormwater	Smooth Metal	Head of stream	12	Stormwater	No			5	4	1
Pipe Outfall	LP039307	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	3	3
Pipe Outfall	LP040311	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP040317	Stormwater	Concrete Channel	Right bank		Stormwater	No			5	1	2
Pipe Outfall	LP040318	Stormwater	Earth Channel	Right bank		Stormwater	No			5	1	2
Pipe Outfall	LP040319	Stormwater	Concrete Pipe	Right bank	15	Stormwater	No			5	1	2
Pipe Outfall	LP040320	Stormwater	Concrete Pipe	Right bank	15	Stormwater	No			5	1	2
Pipe Outfall	LP040323	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP040324	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	No			5	2	2
Pipe Outfall	LP041301	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	2	1
Pipe Outfall	LP042307	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP042309	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP042314	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP042327	Stormwater	Corrugated Metal	Left bank	8	Stormwater	No			5	1	2
Pipe Outfall	LP043305	Stormwater	Smooth Metal	Head of stream	36	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP043306	Stormwater	Plastic	Left bank	6	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP044311	Stormwater	Corrugated Metal	Left bank	30	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP044313	Stormwater	Corrugated Metal	Right bank	12	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP044316	Stormwater	Concrete Pipe	Right bank	6	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP044332	Stormwater	Concrete Pipe	Head of stream	48	Stormwater	No			5	1	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP045302	Stormwater	Concrete Pipe	Right bank	18	Stormwater	No			5	3	1
Pipe Outfall	LP045303	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP046302	Stormwater	Concrete Pipe	Head of stream	18	Stormwater	No			5	1	1
Pipe Outfall	LP046306	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP046308	Stormwater	Concrete Pipe	Right bank	36	Stormwater	No			5	1	1
Pipe Outfall	LP046309	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP047301	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP047302	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP047303	Stormwater	Corrugated Metal	Right bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP051331	Stormwater	Corrugated metal	Right bank	24	Stormwater	Yes	Clear	None	5	2	3
Pipe Outfall	LP056301	Stormwater	Concrete pipe	Head of stream	12	stomwater	No			5	1	1
Pipe Outfall	LP056303	Stormwater	Corrugated metal	Head of stream	12	Stormwater	No			5	1	1
Pipe Outfall	LP056307	Stormwater	Corrugated metal	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP056340	Stormwater	Corrugated metal	Head of stream	18	Stormwater	No			5	1	1
Pipe Outfall	LP057310	Stormwater	Corrugated metal	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP057316	Stormwater	Corrugated metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP057317	Stormwater	Corrugated metal	Left bank	36	Stormwater	No			5	1	1
Pipe Outfall	LP057318	Stormwater	Concrete pipe	Head of stream	48	Stormwater	No			5	1	1
Pipe Outfall	LP057322	Stormwater	Concrete pipe	Head of stream	36	Stormwater	No			5	1	1
Pipe Outfall	LP057325	Stormwater	Corrugated metal	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP057326	Stormwater	Concrete pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP057327	Stormwater	Corrugated metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP057332	Stormwater	Corrugated Metal	Left bank	15	Stormwater	No			5	1	1
Pipe Outfall	LP057334	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP057336	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP058323	Stormwater	Concrete pipe	Left bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP058333	stomwater	Concrete pipe	Head of strem	30	Stormwater	No			5	1	1
Pipe Outfall	LP058337	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP059303	Stormwater	Plastic	Right bank	4	Stormwater	Yes	Clear	None	5	5	1
Pipe Outfall	LP059313	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	No			5	5	1
Pipe Outfall	LP059314	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	5	1
Pipe Outfall	LP061219	Stormwater	Corrugated Metal	Right bank	15	Stormwater	No			5	2	1
Pipe Outfall	LP061323	Stormwater	Concrete Pipe	Head of stream	12	Stormwater	No			5	1	1
Pipe Outfall	LP061325	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	No			5	1	1
Pipe Outfall	LP061327	Stormwater	Corrugated Metal	Right bank	15	Stormwater	No			5	1	1
Pipe Outfall	LP064307	Stormwater	Corrugated Metal	Right bank	6	Stormwater	No			5	1	1
Pipe Outfall	LP064308	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP065301	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP065302	Stormwater	Concrete Pipe	Left bank	36	Stormwater	No			5	1	1
Pipe Outfall	LP065304	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP065308	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP066103	Stormwater	Concrete Pipe	Right bank	18	Stormwater	No			5	1	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP066104	Stormwater	Concrete Pipe	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP066105	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP066106	Stormwater	Concrete Pipe	Right bank	14	Stormwater	No			5	1	1
Pipe Outfall	LP066107	Stormwater	Concrete Pipe	Left bank	30	Stormwater	No			5	1	1
Pipe Outfall	LP066302	Stormwater	Concrete Pipe	Head of stream	118	Stormwater	No			5	1	1
Pipe Outfall	LP066305	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP068206	Stormwater	Concrete Pipe	Left bank	36	Stormwater	No			5	2	2
Pipe Outfall	LP068208	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP068211	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	2	1
Pipe Outfall	LP068212	Stormwater	Concrete Pipe	Right bank	36	Stormwater	No			5	2	2
Pipe Outfall	LP069204	Stormwater	Corrugated Metal	Right bank	24	Stormwater	No			5	2	2
Pipe Outfall	LP069207	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP072232	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP072234	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP072236	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP074208	Stormwater	Corrugated Metal	Right bank	18	Stormwater	No			5	1	2
Pipe Outfall	LP074210	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP074213	Stormwater	Concrete Pipe	Left bank	15	Stormwater	No			5	1	1
Pipe Outfall	LP075201	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	No			5	1	1
Pipe Outfall	LP075202	Stormwater	Concrete Pipe	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP075205	Stormwater	Corrugated Metal	Left bank	36	Stormwater	No			5	1	1
Pipe Outfall	LP080202	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	Yes	Clear	None	5	2	1
Pipe Outfall	LP080204	Stormwater	Concrete Pipe	Right bank	36	Stormwater	Yes	Clear	None	5	2	2
Pipe Outfall	LP080205	Stormwater	Concrete Pipe	Head of stream	32	Stormwater	No			5	1	1
Pipe Outfall	LP080211	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP082341	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP082344	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP082346	Stormwater	Corrugated Metal	Head of stream	24	Stormwater	No			5	1	1
Pipe Outfall	LP082353	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	5	1
Pipe Outfall	LP082354	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	No			5	1	1
Pipe Outfall	LP083303	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP083306	Stormwater	Corrugated Metal		12	Stormwater	No			5	1	2
Pipe Outfall	LP084117	Stormwater	Concrete Pipe	Left bank	32	Stormwater	No			5	1	1
Pipe Outfall	LP084316	Stormwater	Corrugated Metal	Right bank	6	Stormwater	No			5	1	1
Pipe Outfall	LP084317	Stormwater	Corrugated Metal	Head of stream	12	Stormwater	No			5	1	1
Pipe Outfall	LP084318	Stormwater	Corrugated Metal	Head of stream	18	Stormwater	No			5	1	1
Pipe Outfall	LP084319	Stormwater	Concrete Pipe	Head of stream	24	Stormwater	No			5	1	1
Pipe Outfall	LP085123	Stormwater	Concrete Pipe	Head of stream	30	Stormwater	No			5	1	1
Pipe Outfall	LP085124	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP085125	Stormwater	Plastic	Right bank	6	Stormwater	No			5	1	1
Pipe Outfall	LP085127	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP085129	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP085133	Stormwater	Concrete Pipe	Left bank	16	Stormwater	No			5	1	1
Pipe Outfall	LP085135	Stormwater	Plastic	Left bank	6	Stormwater	No			5	1	1
Pipe Outfall	LP085136	Stormwater	Concrete Pipe	Right bank	30	Stormwater	No			5	1	1
Pipe Outfall	LP086203	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	2	1
Pipe Outfall	LP086223	Stormwater	Concrete Pipe	Right bank	15	Stormwater	No			5	2	1
Pipe Outfall	LP088226	Stormwater	Concrete Pipe	Right bank	15	Stormwater	No			5	2	1
Pipe Outfall	LP088229	Stormwater	Corrugated Metal	Right bank	15	Stormwater	No			5	1	1
Pipe Outfall	LP088230	Stormwater	Concrete Channel	Head of stream		Stormwater	No			5	2	1
Pipe Outfall	LP088231	Stormwater	Concrete Pipe	Left bank	18	Stormwater	No			5	2	1
Pipe Outfall	LP088234	Stormwater	Concrete Pipe	Right bank	15	Stormwater	No			5	1	2
Pipe Outfall	LP091124	Stormwater	Plastic	Left bank	10	Stormwater	No			5	1	1
Pipe Outfall	LP093203	Stormwater	Corrugated Metal	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP093204	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP097114	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP097117	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP097123	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP097228	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	2	2
Pipe Outfall	LP098241	Stormwater	Concrete Pipe	Right bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP098242	Stormwater	Concrete Pipe	Left bank	18	Stormwater	No			5	1	2
Pipe Outfall	LP098243	Stormwater	Corrugated Metal	Right bank	18	Stormwater	No			5	1	2
Pipe Outfall	LP099248	Unknown	Concrete Pipe	Left bank	18	Unknown	No			5	1	2
Pipe Outfall	LP099249	Stormwater	Concrete Pipe	Left bank	6	Stormwater	No			5	1	2
Pipe Outfall	LP099253	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP100205	Stormwater	Corrugated Metal	Left bank	18	Stormwater	No			5	1	2
Pipe Outfall	LP100206	Stormwater	Corrugated Metal	Left bank	15	Stormwater	No			5	1	1
Pipe Outfall	LP103207	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP105102	Stormwater	Concrete Pipe		42	Stormwater	Yes	Clear	None	5	2	1
Pipe Outfall	LP106101	Stormwater	Concrete Pipe	Head of stream	42	Stormwater	Yes	Clear	None	5	2	1
Pipe Outfall	LP106112	Stormwater	Concrete Pipe	Right bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP107111	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP108111	Stormwater	Concrete Pipe	Left bank	36	Stormwater	Yes	Clear	None	5	1	1
Pipe Outfall	LP108201	Stormwater	Concrete Pipe	Head of stream	27	Stormwater	No			5	1	1
Pipe Outfall	LP108204	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP109205	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP109206	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP109232	Stormwater	Corrugated Metal	Left bank	15	Stormwater	Yes	Clear	None	5	1	2
Pipe Outfall	LP110101	Stormwater	Concrete Pipe	Left bank	28	Stormwater	No			5	1	1
Pipe Outfall	LP111120	Stormwater	Corrugated Metal	Head of stream	12	Stormwater	No			5	1	1
Pipe Outfall	LP112114	Stormwater	Concrete Pipe	Right bank	24	Stormwater	Yes	Clear	None	5	1	1
Pipe Outfall	LP112117	Stormwater	Concrete Pipe	Right bank	16	Stormwater	No			5	1	1
Pipe Outfall	LP113106	Stormwater	Plastic	Right bank	6	Stormwater	No			5	1	1
Pipe Outfall	LP113109	Stormwater	Corrugated Metal	Left bank	18	Stormwater	Yes	Clear	None	5	2	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP114106	Stormwater	Plastic	Right bank	3	Stormwater	No			5	1	1
Pipe Outfall	LP114114	Stormwater	Corrugated Metal	Left bank	10	Stormwater	No			5	1	1
Pipe Outfall	LP115112	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP115113	Stormwater	Corrugated Metal	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP117112	Stormwater	Concrete pipe	Right bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP117113	Stormwater	Concrete pipe	Right bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP118106	Stormwater	Corrugated metal	Head of stream	12	Stormwater	No			5	1	1
Pipe Outfall	LP119107	Stormwater	Concrete pipe	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP120124	Stormwater	Conrete pipe	Right bank	24	Stormwater	No			5	1	2
Pipe Outfall	LP123105	Stormwater	Concrete pipe	Left bank	22	Stormwater	No			5	1	1
Pipe Outfall	LP123108	Stormwater	Concrete pipe	Left bank	22	Stormwater	No			5	1	1
Pipe Outfall	LP123113	Stormwater	Corrugated metal	Head of stream	18	Stormwater	No			5	1	1
Pipe Outfall	LP123114	Stormwater	Corrugated metal	Left bank	18	Stormwater	No			5	1	1
Pipe Outfall	LP123201	Stormwater	Concrete pipe	Head of stream	48	Stormwater	No			5	2	2
Pipe Outfall	LP126201	Stormwater	Corrugated Metal	Head of stream	27	Stormwater	No			5	1	1
Pipe Outfall	LP126202	Stormwater	Corrugated Metal	Left bank	36	Stormwater	No			5	1	1
Pipe Outfall	LP126203	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP127207	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP128101	Stormwater	Corrugated Metal	Head of stream	24	Stormwater	Yes	Clear	None	5	2	1
Pipe Outfall	LP128104	Stormwater	Concrete Pipe	pond	42	Stormwater	Yes	Clear	None	5	2	1
Pipe Outfall	LP129111	Stormwater	Concrete Pipe	pond	18	Stormwater	No			5	1	1
Pipe Outfall	LP130202	Stormwater	Concrete Pipe	Right bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP132232	Stormwater	Corrugated Metal	Left bank	15	Stormwater	Yes	Clear	None	5	1	2
Pipe Outfall	LP134301	Unknown	Smooth metal	Right bank	12	Unknown	No			5	2	2
Pipe Outfall	LP135301	Stormwater	Concrete pipe	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP135302	Stormwater	Concrete pipe	Right bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP139302	Stormwater	Concrete pipe	Left bank	24	Stormwater	No			5	2	1
Pipe Outfall	LP139303	Stormwater	Concrete pipe	Left bank	12	Stormwater	No			5	2	1
Pipe Outfall	LP141306	Stormwater	Concrete pipe	Head of stream	24	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP141307	Stormwater	Concrete pipe	Left bank	12	Stormwater	No			5	3	1
Pipe Outfall	LP142302	Stormwater	Concrete pipe	Left bank	24	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP142307	Stormwater	Concrete pipe	Right bank	18	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP142308	Stormwater	Concrete pipe	Left bank	18	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP142315	Stormwater	Concrete pipe	Head of stream	36	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP143301	Stormwater	Corrugated metal	Right bank	12	Stormwater	No			5	3	2
Pipe Outfall	LP143301	Stormwater	Corrugated metal	Right bank	12	Stormwater	No			5	3	2
Pipe Outfall	LP143302	Stormwater	Concrete pipe	Right bank	12	Stormwater	No			5	3	1
Pipe Outfall	LP143303	Stormwater	Concrete pipe	Right bank	12	Stormwater	No			5	3	2
Pipe Outfall	LP143305	Stormwater	Corrugated metal	Right bank	16	Stormwater	No			5	3	1
Pipe Outfall	LP143306	Stormwater	Corrugated Metal	Right bank	16	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP143311	Stormwater	Concrete Pipe	Right bank	18	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP143312	Stormwater	Smooth Metal	Right bank	6	Stormwater	No			5	3	1

Pipe Outfalls-Little Patuxent Watershed

Problem	Site Number	Type of Outfall	Type of Pipe	Location facing downstream	Pipe Diameter	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Pipe Outfall	LP143313	Stormwater	Smooth Metal	Right bank	6	Stormwater	No			5	3	1
Pipe Outfall	LP144306	Stormwater	Concrete Pipe		18	Stormwater	No			5	3	1
Pipe Outfall	LP144311	Stormwater	Concrete Pipe	Left bank	12	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP144314	Stormwater	Corrugated Metal	Head of stream	18	Stormwater	Yes	Clear	None	5	3	2
Pipe Outfall	LP145302	Stormwater	Corrugated Metal	Head of stream	30	Stormwater	Yes	Clear	None	5	3	1
Pipe Outfall	LP145305	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	2
Pipe Outfall	LP145309	Stormwater	Corrugated Metal	Head of stream	48	Stormwater	No			5	1	1
Pipe Outfall	LP145310	Stormwater	Corrugated Metal	Head of stream	12	Stormwater	No			5	1	2
Pipe Outfall	LP146303	Stormwater	Concrete Pipe	Left bank	24	Stormwater	No			5	1	1
Pipe Outfall	LP153101	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP153113	Stormwater	Concrete Pipe	Head of stream	18	Stormwater	No			5	1	1
Pipe Outfall	LP155124	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP155129	Stormwater	Concrete Pipe	Left bank	10	Stormwater	No			5	1	1
Pipe Outfall	LP156107	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP156110	Stormwater	Concrete Pipe	Left bank	30	Stormwater	No			5	1	1
Pipe Outfall	LP156111	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	No			5	1	1
Pipe Outfall	LP156253	Stormwater	Concrete Pipe	Head of stream	36	Stormwater	No			5	2	1
Pipe Outfall	LP158225	Stormwater	Concrete Pipe	Right bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP159223	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP169302	Stormwater	Corrugated Metal	Left bank	30	Stormwater	No			5	1	1
Pipe Outfall	LP169306	Stormwater	Corrugated Metal	Head of stream	24	Stormwater	No			5	1	1
Pipe Outfall	LP176114	Stormwater	Corrugated Metal	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP176115	Stormwater	Concrete Pipe	Left bank	12	Stormwater	No			5	1	1
Pipe Outfall	LP176118	Stormwater	Concrete Pipe	Right bank	32	Stormwater	No			5	1	1
Pipe Outfall	LP203108	Stormwater	Concrete Pipe	Left bank	18	Stormwater	No			5	1	1

Tree Blockages-Little Patuxent Watershed

Problem	Site number	Extent	Severity	Tree Size	Location	Orientation To Flow	Composition	Debris Collection	Impacts	Nearest Bridge/Culvert	Surrounding Land Use
Tree Blockage	LP011114	Complete	Bad	Medium	Wholly	Parallel	Trunk	Lots	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP029304	Complete	Bad	Large	Wholly	Angle	Trunk	Some	No Impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP031321	More Than Half	Bad	Medium	Wholly	Perpendicular	Trunk	Lots	Bed	Within 250 ft.	Fully Developed
Tree Blockage	LP031327	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Bed	Within 250 ft.	Partially Developed
Tree Blockage	LP031328	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	One Bank	Within 1000 ft.	Partially Developed
Tree Blockage	LP033212	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	No Impact	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP038307	More Than Half	Bad	Medium	Wholly	Perpendicular	Branches	Lots	Both Banks	More Than 1/2 mile	Natural
Tree Blockage	LP039309	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Bed	Within 250 ft.	Natural
Tree Blockage	LP056306	Complete	Bad	Large	Wholly	Parallel	Branches	Lots	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP058330	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 1000 ft.	Natural
Tree Blockage	LP059317	More Than Half	Bad	Large	Wholly	Perpendicular	Trunk	Some	Bed	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP069219	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Both banks	Within 250ft	Partially Developed
Tree Blockage	LP091130	Complete	Bad	Medium	Wholly	Perpendicular	Trunk	Lots	One bank	Within 250ft	Mostly Developed
Tree Blockage	LP094110	More than half	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Bed	Within 1/2 mile	Partially Developed
Tree Blockage	LP096101	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Bed	More than 1/2 mile	Partially Developed
Tree Blockage	LP098242	Complete	Bad	Medium	Wholly	Perpendicular	Branches	Lots	Both banks	Within 1000ft	Fully Developed
Tree Blockage	LP105107	Complete	Bad	Large	Wholly	Perpendicular	Rootball	Lots	Bed		Mostly Developed
Tree Blockage	LP106111	More Than Half	Bad	Large	Wholly	Perpendicular	Rootball	Lots	Bed		Fully Developed
Tree Blockage	LP108110	More Than Half	Bad	Large	Wholly	Angle	Trunk	Lots	Bed	More Than 1/2 mile	Partially Developed
Tree Blockage	LP109203	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	One Bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP110209	More Than Half	Bad	Large	Wholly	Perpendicular	Trunk	Lots	One Bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP110211	Complete	Bad	Medium	Wholly	Perpendicular	Branches	Lots	One Bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP110238	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Both Banks	Within 1/2 mile	Mostly Developed
Tree Blockage	LP110241	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Both Banks	Within 1000 ft.	Mostly Developed
Tree Blockage	LP119103	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Bed	More than 1/2 mile	Partially Developed
Tree Blockage	LP120111	Complete	Bad	Medium	Wholly	Angle	Trunk	Lots	One Bank	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP132227	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Both Banks	Within 1/2 mile	Partially Developed
Tree Blockage	LP132229	Complete	Bad	Large	Wholly	Perpendicular	Trunk	Lots	Both Banks	More Than 1/2 mile	Partially Developed
Tree Blockage	LP010110	Minor	Minor	Medium	Partially	Parallel	Trunk	Some	No Impact	Within 1/2 mile	Natural
Tree Blockage	LP023304	More than half	Minor	Medium	Partially	Angle	Trunk	Some	One bank	More than 1/2 mile	Partially Developed
Tree Blockage	LP023310	Complete	Minor	Small	Wholly	Angle	Branches	Lots	No impact	More than 1/2 mile	Natural
Tree Blockage	LP029305	More Than Half	Minor	Medium	Partially	Perpendicular	Trunk	None	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP029308	More Than Half	Minor	Medium	Partially	Perpendicular	Trunk	None	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP029309	Less Than Half	Minor	Large	Wholly	Perpendicular	Trunk	None	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP030311	More Than Half	Minor	Medium	Partially	Perpendicular	Branches	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP031323	Complete	Minor	Small	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1000 ft.	Fully Developed
Tree Blockage	LP033206	More Than Half	Minor	Small	Wholly	Parallel	Branches	Some	One Bank	Within 250 ft.	Partially Developed

Tree Blockages-Little Patuxent Watershed

Problem	Site number	Extent	Severity	Tree Size	Location	Orientation To Flow	Composition	Debris Collection	Impacts	Nearest Bridge/Culvert	Surrounding Land Use
Tree Blockage	LP033208	Less Than Half	Minor	Small	Partially	Perpendicular	Branches	Lots	One Bank	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP042304	Minor	Minor	Medium	Partially	Perpendicular	Trunk	None	No Impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP042317	Complete	Minor	Medium	Wholly	Perpendicular	Trunk	None	Bed	Within 1/2 mile	Mostly Developed
Tree Blockage	LP043310	More than half	Minor	Medium	Partially	Perpendicular	Branches	Some	No impact	More than 1/2 mile	Partially Developed
Tree Blockage	LP044309	More than half	Minor	Medium	Partially	Perpendicular	Trunk	Some	No impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP059315	Complete	Minor	Small	Wholly	Perpendicular	Branches	Lots	Bed	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP063309	More than half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	One bank	Within 1000ft	Fully Developed
Tree Blockage	LP080208	Less Than Half	Minor	Medium	Partially	Perpendicular	Trunk	Lots	No Impact	Within 1000 ft.	Fully Developed
Tree Blockage	LP080210	Less Than Half	Minor	Large	Wholly	Angle	Trunk	Some	No Impact	Within 1000 ft.	Partially Developed
Tree Blockage	LP082102	Minor	Minor	Small	Wholly	Angle	Trunk	Some	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP085120	Minor	Minor	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP085132	Less Than Half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Withinh 1/2 mile	Partially Developed
Tree Blockage	LP088238	More Than Half	Minor	Small	Wholly	Angle	Branches	Some	One Bank	More Than 1/2 mile	Partially Developed
Tree Blockage	LP089202	Less Than Half	Minor	Small	Wholly	Perpendicular	Branches	Some	No Impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP090210	More than half	Minor	Medium	Wholly	Perpendicular	Branches	Some	No impact	Within 1000ft	Partially Developed
Tree Blockage	LP091127	Less than half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	No impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP093108	Less than half	Minor	Large	Partially	Angle	Trunk	Some	One bank	Within 1000ft	Partially Developed
Tree Blockage	LP104202	Less Than Half	Minor	Medium	Partially	Perpendicular	Branches	Lots	No Impact	Within 1000 ft.	Mostly Developed
Tree Blockage	LP104205	Less Than Half	Minor	Medium	Partially	Perpendicular	Branches	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP105102	Less Than Half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	Both Banks	Within 1000 ft.	Natural
Tree Blockage	LP107103	More Than Half	Minor	Large	Wholly	Angle	Trunk	Lots	No Impact	Within 250 ft.	Mostly Developed
Tree Blockage	LP107112	Minor	Minor	Medium	Wholly	Perpendicular	Trunk	None	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP107115	Minor	Minor	Small	Wholly	Perpendicular	Branches	Some	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP112101	Less Than Half	Minor	Small	Wholly	Perpendicular	Branches	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP112106	Less Than Half	Minor	Medium	Wholly	Perpendicular	Trunk	None	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP131217	More Than Half	Minor	Small	Wholly	Perpendicular	Branches	Lots	One Bank	Within 250 ft.	Mostly Developed
Tree Blockage	LP155101	More Than Half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1000 ft.	Partially Developed
Tree Blockage	LP155103	Less Than Half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1000 ft.	Partially Developed
Tree Blockage	LP155104	Less Than Half	Minor	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP010113	More Than Half	Moderate	Medium	Wholly	Parallel	Trunk	Some	No Impact	Within 1/2 mile	Natural
Tree Blockage	LP022333	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	Bed	More than 1/2 mile	Mostly Developed
Tree Blockage	LP029302	Complete	Moderate	Large	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP030318	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	Bed	Within 250 ft.	Partially Developed
Tree Blockage	LP031319	More Than Half	Moderate	Medium	Partially	Perpendicular	Other	None	No Impact	Within 250 ft.	Fully Developed
Tree Blockage	LP033210	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	Bed	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP033211	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	Bed	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP037306	More Than Half	Moderate	Small	Partially	Angle	Branches	Some	No Impact	More Than 1/2 mile	Partially Developed

Tree Blockages-Little Patuxent Watershed

Problem	Site number	Extent	Severity	Tree Size	Location	Orientation To Flow	Composition	Debris Collection	Impacts	Nearest Bridge/Culvert	Surrounding Land Use
Tree Blockage	LP038301	Complete	Moderate	Small	Wholly	Perpendicular	Branches	Some	Bed	Within 250 ft.	Partially Developed
Tree Blockage	LP038306	More Than Half	Moderate	Small	Partially	Perpendicular	Branches	Some	Both Banks	More Than 1/2 mile	Natural
Tree Blockage	LP038315	Less Than Half	Moderate	Medium	Partially	Angle	Branches	Lots	One Bank	More Than 1/2 mile	Natural
Tree Blockage	LP038317	Complete	Moderate	Large	Wholly	Angle	Trunk	None	One Bank	More Than 1/2 mile	Natural
Tree Blockage	LP040306	Complete	Moderate	Large	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1000 ft.	Mostly Developed
Tree Blockage	LP040314	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	One Bank	Within 1000 ft.	Partially Developed
Tree Blockage	LP040326	More Than Half	Moderate	Medium	Partially	Perpendicular	Trunk	Some	One Bank	Within 250 ft.	Partially Developed
Tree Blockage	LP040327	Complete	Moderate	Small	Partially	Perpendicular	Trunk	Lots	Bed	Within 1000 ft.	Partially Developed
Tree Blockage	LP041318	Complete	Moderate	Medium	Partially	Perpendicular	Trunk	Some	Bed	Within 250 ft.	Mostly Developed
Tree Blockage	LP041322	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	Bed	Within 1000 ft.	Mostly Developed
Tree Blockage	LP042301	Complete	Moderate	Small	Wholly	Perpendicular	Trunk	Lots	Bed	Within 1000 ft.	Mostly Developed
Tree Blockage	LP042329	Complete	Moderate	Large	Wholly	Perpendicular	Trunk	Some	One bank	Within 1000ft	Fully Developed
Tree Blockage	LP044310	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	No impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP055202	More Than Half	Moderate	Large	Wholly	Perpendicular	Branches	Lots	Bed	More Than 1/2 mile	Partially Developed
Tree Blockage	LP055218	Less Than Half	Moderate	Small	Partially	Perpendicular	Trunk	Lots	One Bank	Within 1/2 mile	Fully Developed
Tree Blockage	LP055219	Complete	Moderate	Large	Wholly	Angle	Trunk	Some	No Impact	Within 1/2 mile	Fully Developed
Tree Blockage	LP057331	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Some	No Impact	More Than 1/2 mile	Partially Developed
Tree Blockage	LP057333	More Than Half	Moderate	Medium	Partially	Perpendicular	Trunk	Some	No Impact	More Than 1/2 mile	Partially Developed
Tree Blockage	LP058319	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	Bed	Within 1/2 mile	Mostly Developed
Tree Blockage	LP058332	More Than Half	Moderate	Medium	Partially	Parallel	Trunk	Lots	One Bank	Within 1/2 mile	Natural
Tree Blockage	LP058334	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	One Bank	Within 1/2 mile	Natural
Tree Blockage	LP060220	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	None	No Impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP065306	More than half	Moderate	Large	Partially	Perpendicular	Branches	Lots	No impact	Within 1000ft	Partially Developed
Tree Blockage	LP065311	More than half	Moderate	Medium	Partially	Perpendicular	Trunk	Lots	One bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP067216	Complete	Moderate	Medium	Wholly	Perpendicular	Branches	Lots	Both Banks	Within 1/2 mile	Fully Developed
Tree Blockage	LP069218	More than half	Moderate	Medium	Partially	Angle	Branches	Lots	No impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP075204	Complete	Moderate	Medium	Wholly	Perpendicular	Branches	Lots	No impact	Within 1/2 mile	Fully Developed
Tree Blockage	LP080223	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Some	No Impact	Within 250 ft.	Fully Developed
Tree Blockage	LP082351	Complete	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP082352	More Than Half	Moderate	Medium	Wholly	Angle	Trunk	Some	No Impact	Within 1000 ft.	Mostly Developed
Tree Blockage	LP084312	Complete	Moderate	Medium	Wholly	Angle	Branches	Lots	One Bank		Mostly Developed
Tree Blockage	LP085130	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP085134	Complete	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	Bed	Within 1/2 mile	Partially Developed
Tree Blockage	LP086225	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	One Bank	Within 1/2 mile	Mostly Developed
Tree Blockage	LP088239	Complete	Moderate	Medium	Wholly	Perpendicular	Branches	Lots	One Bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP091129	More than half	Moderate	Small	Wholly	Perpendicular	Branches	Some	No impact	Within 250ft	Mostly Developed
Tree Blockage	LP092101	More than half	Moderate	Small	Partially	Perpendicular	Branches	Lots	No impact	Within 1000ft	Partially Developed

Tree Blockages-Little Patuxent Watershed

Problem	Site number	Extent	Severity	Tree Size	Location	Orientation To Flow	Composition	Debris Collection	Impacts	Nearest Bridge/Culvert	Surrounding Land Use
Tree Blockage	LP093103	More than half	Moderate	Large	Wholly	Parallel	All	Lots	One bank	Within 250ft	Partially Developed
Tree Blockage	LP093105	More than half	Moderate	Medium	Partially	Parallel	Branches,T	Some	One bank	Within 250ft	Partially Developed
Tree Blockage	LP094112	More than half	Moderate	Large	Wholly	Perpendicular	Trunk	Some	One bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP095114	More than half	Moderate	Large	Partially	Perpendicular	Trunk	Some	One bank	Within 1/2 mile	Mostly Developed
Tree Blockage	LP104210	Complete	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP105103	More Than Half	Moderate	Large	Partially	Angle	Trunk	Lots	One Bank	More Than 1/2 mile	Natural
Tree Blockage	LP105199	More Than Half	Moderate	Medium	Wholly	Angle	Trunk	Some	No Impact	More Than 1/2 mile	Partially Developed
Tree Blockage	LP107107	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	One Bank	More Than 1/2 mile	Partially Developed
Tree Blockage	LP110236	More Than Half	Moderate	Small	Wholly	Perpendicular	Trunk	Lots	One Bank	Within 1000 ft.	Mostly Developed
Tree Blockage	LP112105	Less Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP112115	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	One Bank	More Than 1/2 mile	Partially Developed
Tree Blockage	LP113102	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP114102	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP114108	More Than Half	Moderate	Medium	Wholly	Angle	Branches	Some	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP114109	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	One Bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP114112	Less Than Half	Moderate	Medium	Wholly	Angle	Trunk	Some	No Impact	Within 250 ft.	Partially Developed
Tree Blockage	LP117106	More than half	Moderate	Small	Wholly	Perpendicular	Branches	Some	Bed	Within 1000ft	Mostly Developed
Tree Blockage	LP120108	More Than Half	Moderate	Medium	Wholly	Angle	Branches	Some	One Bank	More Than 1/2 mile	Mostly Developed
Tree Blockage	LP126208	Complete	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	Both Banks	Within 1/2 mile	Mostly Developed
Tree Blockage	LP129110	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1/2 mile	Mostly Developed
Tree Blockage	LP131202	More Than Half	Moderate	Small	Partially	Perpendicular	Branches	Lots	Both Banks	Within 250 ft.	Mostly Developed
Tree Blockage	LP132217	More Than Half	Moderate	Large	Partially	Perpendicular	Trunk	Lots	One Bank	Within 1000 ft.	Partially Developed
Tree Blockage	LP132221	More Than Half	Moderate	Medium	Partially	Perpendicular	Branches	Some	One Bank	Within 1/2 mile	Partially Developed
Tree Blockage	LP132226	More Than Half	Moderate	Medium	Wholly	Perpendicular	Branches	Lots	One Bank	Within 250 ft.	Partially Developed
Tree Blockage	LP132231	More Than Half	Moderate	Large	Partially	Angle	Trunk	Lots	One Bank	Within 1/2 mile	Mostly Developed
Tree Blockage	LP135303	More than half	Moderate	Medium	Partially	Perpendicular	Trunk	Lots	No impact	More than 1/2 mile	Partially Developed
Tree Blockage	LP141308	Complete	Moderate	Medium	Wholly	Perpendicular	Branches	Lots	No impact	Within 1000ft	Mostly Developed
Tree Blockage	LP142305	Complete	Moderate	Large	Partially	Perpendicular	Branches	Lots	One Bank	Within 1000 ft.	Partially Developed
Tree Blockage	LP153102	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	No Impact		Mostly Developed
Tree Blockage	LP154111	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 250 ft.	Natural
Tree Blockage	LP154112	More Than Half	Moderate	Large	Wholly	Perpendicular	Trunk	Some	No Impact	Within 1000 ft.	Natural
Tree Blockage	LP155118	More Than Half	Moderate	Large	Wholly	Angle	Trunk	Lots	One Bank	Within 1000 ft.	Partially Developed
Tree Blockage	LP155127	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 250 ft.	Mostly Developed
Tree Blockage	LP156105	Less Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Lots	No Impact	Within 1/2 mile	Partially Developed
Tree Blockage	LP157231	More Than Half	Moderate	Medium	Wholly	Perpendicular	Trunk	Some	One Bank	More Than 1/2 mile	Partially Developed
Tree Blockage	LP157233	More Than Half	Moderate	Large	Partially	Angle	Trunk	Lots	One Bank	Within 250 ft.	Partially Developed
Tree Blockage	LP164202	Complete	Moderate	Medium	Wholly	Angle	Trunk	Lots	One Bank	Within 250 ft.	Partially Developed

Erosion-Little Patuxent Watershed

Problem	Site number	Type	Possible Cause	Length(ft))	Height(ft)	Land Use Right	Land Use Left	Infrastructure Threat?	Severity	Correctability	Access
Erosion	LP039314	Widening	Bend at steep slope	700	15	Paved	Forest	Yes	1	4	1
Erosion	LP105101	Downcutting		11000	6	Forest	Forest	No	1	5	2
Erosion	LP029304	Widening	Bend at steep slope	30	25	Forest	Forest	No	2	4	3
Erosion	LP039308	Headcutting		8	5	Lawn	Forest	No	2	4	1
Erosion	LP040322	Widening	Bend at steep slope	600	3	Lawn	lawn	No	2	3	2
Erosion	LP042306	Headcutting	Below	25	6	Forest	Forest	Yes	2	3	3
Erosion	LP075204	Downcutting	Pipe Outfall	2000	3	Shrubs & Small Trees	Shrubs & Small Trees	No	2	2	2
Erosion	LP023311	Widening	Bend at steep slope	100	5	Lawn	Forest	Yes	3	3	1
Erosion	LP037303	Headcutting	Pipe outfall	40	4	Shrubs & small trees	Paved	No	3	2	2
Erosion	LP037307	Headcutting	Pipe outfall	50	4	Shrubs & small trees	Shrubs & small trees	No	3	2	2
Erosion	LP037308	Widening	Bend at steep slope	3000	4	Forest	Forest	No	3	3	4
Erosion	LP039310	Widening	Bend at steep slope	80	3	Forest	lawn	Yes	3	3	1
Erosion	LP040316	Downcutting		400	4	Shrubs & small trees	Shrubs & small trees	No	3	3	3
Erosion	LP041321	Widening	Bend at steep slope	300	4	Shrubs & small trees	lawn	No	3	3	2
Erosion	LP048202	Widening		1100	5	Lawn	Forest	Yes	3	3	2
Erosion	LP055217	Widening	Bend at steep slope	100	4	Forest	Forest	No	3	4	2
Erosion	LP056309	Downcutting	Bend at steep slope	1000	5	Shrubs & Small Trees	Shrubs & Small Trees	No	3	3	2
Erosion	LP056310	Headcutting	Pipe outfall	15	5	Shrubs & Small Trees	Shrubs & Small Trees	No	3	3	2
Erosion	LP058329	Widening	Bend at steep slope	1000	4	Forest	Forest	No	3	3	3
Erosion	LP059316	Headcutting		100	3	Multiflora Rose	Multiflora Rose	No	3	3	2
Erosion	LP063302	Widening		600	5	Lawn	Lawn	No	3	3	2
Erosion	LP074209	Downcutting		600	6	Lawn	Lawn	Yes	3	3	2
Erosion	LP081214	Downcutting	Below	100	7	Lawn	Lawn	No	3	4	1
Erosion	LP088232	Downcutting	Below	700	5	Lawn	Lawn	No	3	3	3
Erosion	LP088233	Downcutting	Below	300	4	Forest	Forest	No	3	3	3
Erosion	LP090206	Unknown	Bend at steep slope	700	5	Forest	Forest	No	3	3	2
Erosion	LP091122	Widening	Bend at steep slope	1400	3	Lawn	lawn	No	3	3	1
Erosion	LP093104	Widening	Below	600	4	Forest	Shrubs & Small Trees	No	3	3	1
Erosion	LP101202	Widening	Bend at steep slope	1000	4	Forest	Forest	No	3	3	3
Erosion	LP105104	Downcutting	Below	700	4.5	Forest	Forest	No	3	3	3
Erosion	LP110211	Widening	Below road crossing	50	3	Forest	Forest	No	3	3	1
Erosion	LP114107	Widening	Bend at Steep Slope	2500	5	Forest	Forest	No	3	3	2
Erosion	LP128107	Downcutting	Pipe Outfall	2500	5	Forest	Forest	No	3	4	2
Erosion	LP130203	Headcutting	Below	1000	5	Forest	Forest	No	3	3	3
Erosion	LP132222	Widening		180	10	Forest	Forest	No	3	3	2
Erosion	LP132228	Widening	Bend at steep slope	150	10	Lawn	Forest	No	3	4	3
Erosion	LP154116	Downcutting		3300	4	Lawn	Lawn	No	3	3	1

Erosion-Little Patuxent Watershed

Erosion	LP156109	Widening		600	5	Lawn	Shrubs & small trees	No	3	3	1
Erosion	LP159210	Widening		100	5	Forest	Shrubs & small trees	No	3	3	2
Erosion	LP010113	Widening	Bend at steep slope	100	15	Forest	Forest	No	4	3	2
Erosion	LP011115	Widening	Bend at steep slope	200	10	Forest	Forest	No	4	3	3
Erosion	LP022305	Widening	Bend at steep slope	40	6	Lawn	Lawn	No	4	2	2
Erosion	LP026102	Downcutting		200	4	Forest	Forest	No	4	4	4
Erosion	LP029301	Widening	Bend at steep slope	60	4	Forest	Shrubs & Small Trees	No	4	3	2
Erosion	LP029315	Downcutting		60	5	Forest	Forest	No	4	3	2
Erosion	LP030315	Widening	Bend at steep slope	50	15	Lawn	Shrubs & Small Trees	Yes	4	3	1
Erosion	LP034204	Widening		400	2	Forest	Forest	No	4	3	3
Erosion	LP034205	Downcutting		200	3	Forest	Forest	No	4	3	3
Erosion	LP038319	Widening	Bend at steep slope	150	5	Forest	Forest	No	4	3	2
Erosion	LP041307	Widening	Below	15	3	Forest	Forest	No	4	3	2
Erosion	LP041313	Downcutting		500	3	Lawn	Shrubs & small trees	No	4	2	2
Erosion	LP042323	Widening	Bend at steep slope	15	12	Lawn	Lawn	Yes	4	3	2
Erosion	LP046304	Widening	Bend at steep slope	100	4	Forest	Lawn	No	4	2	2
Erosion	LP055201	Widening	Bend at steep slope	100	4	Forest	Forest	No	4	3	3
Erosion	LP058322	Downcutting	Pipe Outfall	25	5	Shrubs & Small Trees	Forest	No	4	4	2
Erosion	LP058324	Downcutting		50	5	Lawn	Forest	No	4	3	1
Erosion	LP068218	Widening		40	5	Lawn	Lawn	Yes	4	3	2
Erosion	LP080208	Widening		200	5	Shrubs & Small Trees	Shrubs & Small Trees	No	4	3	2
Erosion	LP080222	Widening	Bend at steep slope	40	8	Forest	Lawn	No	4	4	4
Erosion	LP084315	Headcutting	Exposed Pipe	30	5	Lawn	Lawn	No	4	3	2
Erosion	LP085126	Widening	Bend at steep slope	200	6	Shrubs & Small Trees	Forest	No	4	2	1
Erosion	LP086202	Downcutting		150	5	Lawn	Lawn	No	4	3	3
Erosion	LP086209	Downcutting		300	3	Lawn	Lawn	No	4	3	2
Erosion	LP086223	Widening	Bend at steep slope	50	4	Forest	Forest	No	4	3	3
Erosion	LP088240	Widening		100	6	Forest	Forest	No	4	3	3
Erosion	LP093202	Downcutting	Pipe Outfall	400	3	Shrubs & Small Trees	Shrubs & Small Trees	No	4	3	3
Erosion	LP098105	Widening	Below road crossing	200	4	Lawn	Lawn	No	4	3	1
Erosion	LP099250	Widening		150	4	Lawn	Lawn	No	4	2	2
Erosion	LP104202	Widening		150	5	Forest	Shrubs & Small Trees	No	4	3	2
Erosion	LP104203	Widening		200	6	Forest	Shrubs & Small Trees	No	4	3	3
Erosion	LP104206	Widening		100	6	Forest	Forest	No	4	3	2
Erosion	LP108203	Headcutting		100	3	Lawn	Lawn	Yes	4	2	2
Erosion	LP108206	Downcutting		250	2	Shrubs & Small Trees	Shrubs & Small Trees	No	4	3	2
Erosion	LP110240	Widening		300	3	Forest	Lawn	No	4	3	3
Erosion	LP112116	Widening	Bend at Steep Slope	600	4	Forest	Shrubs & Small Trees	No	4	3	1
Erosion	LP126204	Widening	Bend at steep slope	75	4	Shrubs & Small Trees	Forest	No	4	3	2
Erosion	LP126206	Widening		75	6	Forest	Forest	No	4	3	2
Erosion	LP131202	Downcutting		100	2	Shrubs & Small Trees	Shrubs & Small Trees	No	4	2	2
Erosion	LP132217	Widening	Pipe Outfall	300	3	Forest	Forest	No	4	3	2
Erosion	LP132219	Headcutting		30	4	Forest	Forest	No	4	3	3

Erosion-Little Patuxent Watershed

Erosion	LP132234	Widening		100	4	Lawn	Forest	No	4	3	3
Erosion	LP132235	Headcutting	Below	150	2	Lawn	Lawn	No	4	3	2
Erosion	LP138302	Headcutting	Pipe Outfall	600	3	Forest	Forest	No	4	3	4
Erosion	LP146306	Headcutting	Pipe Outfall	150	7	Forest	Forest	No	4	3	3
Erosion	LP153103	Downcutting	Pipe outfall	600	3	Forest	Forest	No	4	3	1
Erosion	LP155102	Widening	Bend at steep slope	1600	2.5	Forest	Forest	No	4	2	1
Erosion	LP159224	Downcutting	Pipe Outfall	600	4	Shrubs & Small Trees	Shrubs & Small Trees	No	4	3	3
Erosion	LP175112	Widening	Below	950	4	Shrubs & small trees	Shrubs & small trees	No	4	3	1
Erosion	LP203105	Headcutting		100	6	Forest	Forest	No	4	3	3
Erosion	LP022334	Headcutting		400	5	Forest	Forest	No	5	2	2
Erosion	LP023303	Widening	Bend at steep slope	50	6	Forest	Lawn	No	5	2	1
Erosion	LP031324	Downcutting	Pipe	6	1	Lawn	Forest	No	5	1	1
Erosion	LP033206	Downcutting	Bend at steep slope	20	3	Forest	Forest	No	5	3	2
Erosion	LP040310	Headcutting	Bend at steep slope	15	10	Shrubs & small trees	Lawn	No	5	3	2
Erosion	LP056304	Downcutting	Pipe Outfall	200	3	Multiflora Rose	Shrubs & Small Trees	No	5	2	1
Erosion	LP057334	Widening	Bend at steep slope	15	6	Shrubs & small trees	Shrubs & small trees	No	5	2	1
Erosion	LP084312	Widening	Pipe Outfall	10	5	Forest	Multiflora Rose	No	5	1	1
Erosion	LP104211	Headcutting		300	4	Forest	Forest	No	5	3	3
Erosion	LP105105	Downcutting		6	8	Forest	Forest	No	5	3	3
Erosion	LP107110	Downcutting	Below Road	250	5	Forest	Forest	No	5	2	1
Erosion	LP110212	Widening		20	3	Forest	Forest	No	5	2	2
Erosion	LP126209	Widening	Bend at steep slope	100	4	Forest	Forest	No	5	3	2
Erosion	LP144313	Headcutting	Pipe Outfall	30	2	Shrubs & Small Trees	Lawn	No	5	3	1

Inadequate Buffer-Little Patuxent Watershed

Problem	Site number	Inadequate on	Unshaded on	Width Left(ft)	Length Left(ft)	Land Use Left	Width Right(ft)	Length Right(ft)	Land Use Right	Severity	Correctability	Access
Inadequate Buffer	LP055215	Both	Both	0	1000	Lawn	0	1000	Lawn	1	3	3
Inadequate Buffer	LP074212	Both	Both	0	3500	Lawn	0	3500	Lawn	1	4	1
Inadequate Buffer	LP091120	Both	Neither	5	2200	Shrubs & Small Trees	5	2200	Shrubs & Small Trees	1	4	1
Inadequate Buffer	LP097230	Both	Both	5	6900	Crop field	5	6900	Crop field	1	3	2
Inadequate Buffer	LP162204	Both	Both	0	3500	Pasture	0	3500	Crop field	1	2	3
Inadequate Buffer	LP009106	Both	Both	10	800	Shrubs & Small Trees	10	1100	Shrubs & Small Trees	2	2	1
Inadequate Buffer	LP011114	Both	Both	20	2600	Trees	0	2600	Paved	2	4	1
Inadequate Buffer	LP053308	Right	Both			Shrubs & Small Trees	0	1000	Lawn	2	1	1
Inadequate Buffer	LP061214	Both	Both	0	1400	Lawn	0	1400	Lawn	2	2	2
Inadequate Buffer	LP075208	Both	Both	2	5000	Lawn	2	5000	Lawn	2	3	2
Inadequate Buffer	LP093205	Both	Both	1	1500	Shrubs & Small Trees	1	1500	Shrubs & Small Trees	2	2	4
Inadequate Buffer	LP099252	Both	Both	0	1600	Lawn	0	1600	Lawn	2	3	2
Inadequate Buffer	LP11150	Both	Both	20	1100	Other	0	1100	Paved	2	4	1
Inadequate Buffer	LP11151	Both	Both	20	500	Other	0	500	Paved	2	4	1
Inadequate Buffer	LP114117	Both	Neither	5	1500	Shrubs & Small Trees	5	1500	Shrubs & Small Trees	2	3	1
Inadequate Buffer	LP117107	Left	Neither	10	3000	Lawn			Forest	2	3	1
Inadequate Buffer	LP118113	Both	Both	5	1000	Lawn	5	1000	Lawn	2	3	1
Inadequate Buffer	LP129102	Both	Neither	10	1000	Lawn	20	1000	Lawn	2	4	1
Inadequate Buffer	LP154115	Both	Neither	5	2600	Lawn	5	2600	Lawn	2	3	1
Inadequate Buffer	LP155123	Both	Neither	5	1600	Lawn	5	1600	Lawn	2	3	1
Inadequate Buffer	LP009121	Left	Left	10	500	Lawn			Forest	3	1	1
Inadequate Buffer	LP022301	Both	Both	10	1200	Lawn	0	1200	Lawn	3	1	1
Inadequate Buffer	LP022303	Both	Both	0	800	Lawn	0	800	Lawn	3	1	1
Inadequate Buffer	LP022306	Both	Neither	20	1000	Lawn	5	1000	Lawn	3	2	2
Inadequate Buffer	LP032214	Right	Right			Forest	20	1400	Shrubs & Small Trees	3	3	2
Inadequate Buffer	LP040307	Left	Left	8	400	Lawn			Forest	3	1	1
Inadequate Buffer	LP040321	Both	Both	0	600	Lawn	0	600	Lawn	3	1	1
Inadequate Buffer	LP041304	Left	Neither	5	500	Lawn			Forest	3	1	1
Inadequate Buffer	LP041321	Both	Both	5	300	Shrubs & Small Trees	10	300	Lawn	3	1	2
Inadequate Buffer	LP042310	Both	Left	2	600	Lawn	3	600	Bike trail	3	1	1
Inadequate Buffer	LP054306	Both	Both	0	600	Paved	0	600	Paved	3	3	1
Inadequate Buffer	LP056320	Both	Both	15	600	Lawn	10	600	Lawn	3	1	2
Inadequate Buffer	LP057324	Right	Neither			Shrubs & Small Trees	6	1000	Lawn	3	1	2
Inadequate Buffer	LP059305	Both	Both	0	600	Lawn	0	600	Lawn	3	1	1
Inadequate Buffer	LP067201	Both	Both	10	1000	Shrubs & Small Trees	10	1000	Shrubs & Small Trees	3	2	3
Inadequate Buffer	LP070221	Both	Both	5	3500	Lawn	0	3500	Lawn	3	3	2
Inadequate Buffer	LP085121	Both	Neither	20	100	Lawn	10	100	Lawn	3	3	1
Inadequate Buffer	LP085212	Both	Both	10	1000	Lawn	10	1000	Lawn	3	5	1
Inadequate Buffer	LP092101	Right	Right			Forest	0	600	Lawn	3	3	1
Inadequate Buffer	LP092111	Left	Neither	5	200	Lawn			Forest	3	3	1

Inadequate Buffer-Little Patuxent Watershed

Problem	Site number	Inadequate on	Unshaded on	Width Left(ft)	Length Left(ft)	Land Use Left	Width Right(ft)	Length Right(ft)	Land Use Right	Severity	Correctability	Access
Inadequate Buffer	LP093102	Right	Neither			Forest	5	400	Pasture	3	3	1
Inadequate Buffer	LP098102	Both	Both	5	800	Lawn	5	800	Lawn	3	3	1
Inadequate Buffer	LP109201	Both	Both	0	300	Shrubs & Small Trees	0	500	Shrubs & Small Trees	3	3	2
Inadequate Buffer	LP110210	Both	Both	0	100	Paved	0	100	Paved	3	4	1
Inadequate Buffer	LP110243	Both	Both	5	600	Lawn	5	600	Lawn	3	3	2
Inadequate Buffer	LP110245	Both	Both	20	600	Paved	10	600	Paved	3	4	1
Inadequate Buffer	LP114113	Both	Neither	20	1800	Shrubs & Small Trees	20	1800	Shrubs & Small Trees	3	3	1
Inadequate Buffer	LP128102	Both	Both	0	600	Lawn	5	600	Lawn	3	2	1
Inadequate Buffer	LP128106	Both	Both	5	1600	Lawn	10	200	Forest	3	2	1
Inadequate Buffer	LP130204	Left	Left	2	500	Lawn			Forest	3	4	1
Inadequate Buffer	LP132232	Both	Both	5	300	Lawn	30	300	Lawn	3	3	2
Inadequate Buffer	LP142306	Both	Both	3	600	Lawn	3	600	Lawn	3	1	1
Inadequate Buffer	LP143314	Both	Both	0	800	Lawn	0	800	Lawn	3	1	1
Inadequate Buffer	LP144310	Both	Both	0	1200	Lawn	10	1200	Shrubs & Small Trees	3	1	1
Inadequate Buffer	LP156108	Left		8	600	Lawn			Shrubs & Small Trees	3	3	1
Inadequate Buffer	LP157237	Both	Both	0	800	Lawn	0	800	Lawn	3	1	1
Inadequate Buffer	LP161301	Both	Both	5	1400	Crop field	5	1400	Crop field	3	2	2
Inadequate Buffer	LP175113	Both	Neither	20	2000	Shrubs & Small Trees	40	2000	Shrubs & Small Trees	3	3	1
Inadequate Buffer	LP197112	Both	Neither	5	500	Lawn	10	500	Lawn	3	3	1
Inadequate Buffer	LP011101	Both	Both	0	3800	Paved	0	3800	Lawn	4	4	1
Inadequate Buffer	LP011115	Left	Neither	0	2600	Paved			Forest	4	4	1
Inadequate Buffer	LP011116	Left	Neither	5	600	Paved			Forest	4	2	1
Inadequate Buffer	LP019302	Both	Both	0	100	Lawn	0	100	Lawn	4	1	1
Inadequate Buffer	LP022307	Both	Right	10	500	Lawn	5	500	Lawn	4	2	2
Inadequate Buffer	LP023311	Both	Both	30	100	Forest	0	100	Lawn	4	1	1
Inadequate Buffer	LP023314	Both	Neither	4	300	Lawn	10	300	Other	4	1	1
Inadequate Buffer	LP026103	Left	Left	10	200	Paved			Forest	4	4	1
Inadequate Buffer	LP030302	Left	Both	0	1000	Lawn			Lawn	4	5	1
Inadequate Buffer	LP030329	Both	Both	5	70	Lawn	5	80	Lawn	4	1	1
Inadequate Buffer	LP038318	Right	Both			Forest	0	200	Lawn	4	1	2
Inadequate Buffer	LP041313	Left	Left	5	500	Lawn		0	Shrubs & Small Trees	4	1	2
Inadequate Buffer	LP054221	Both	Both	20	300	Lawn	30	100	Shrubs & Small Trees	4	3	2
Inadequate Buffer	LP068210	Both	Both	0	3200	Shrubs & Small Trees	0	3200	Shrubs & Small Trees	4	3	2
Inadequate Buffer	LP072235	Both	Neither	5	100	Lawn	20	2500	Lawn	4	2	2
Inadequate Buffer	LP080223	Both	Both	0	100	Shrubs & Small Trees	0	100	Shrubs & Small Trees	4	2	2
Inadequate Buffer	LP082347	Both	Both	10	100	Lawn	25	100	Lawn	4	1	2
Inadequate Buffer	LP083304	Both	Neither	20	200	Lawn	20	200	Lawn	4	2	1
Inadequate Buffer	LP085131	Both	Neither	10	600	Shrubs & Small Trees	20	600	Shrubs & Small Trees	4	2	1
Inadequate Buffer	LP086208	Both	Both	20	700	Lawn	20	700	Lawn	4	2	2
Inadequate Buffer	LP088227	Both	Both	20	500	Lawn	5	500	Lawn	4	3	1

Inadequate Buffer-Little Patuxent Watershed

Problem	Site number	Inadequate on	Unshaded on	Width Left(ft)	Length Left(ft)	Land Use Left	Width Right(ft)	Length Right(ft)	Land Use Right	Severity	Correctability	Access
Inadequate Buffer	LP089205	Both	Neither	20	400	Lawn	20	400	Lawn	4	2	2
Inadequate Buffer	LP093109	Both	Neither	10	200	Shrubs & Small Trees	5	200	Lawn	4	3	1
Inadequate Buffer	LP097113	Both	Neither	10	1000	Lawn	15	1000	Lawn	4	2	2
Inadequate Buffer	LP097122	Both	Both	5	300	Lawn	5	300	Lawn	4	2	2
Inadequate Buffer	LP103207	Both	Both	0	100	Forest	20	300	Lawn	4	3	1
Inadequate Buffer	LP104201	Both	Both	0	650	Shrubs & Small Trees	0	600	Shrubs & Small Trees	4	2	1
Inadequate Buffer	LP104206	Both	Both	2	100	Shrubs & Small Trees	2	100	Shrubs & Small Trees	4	2	1
Inadequate Buffer	LP107106	Left	Neither	10	100	Lawn			Forest	4	1	1
Inadequate Buffer	LP112108	Both	Neither	10	500	Lawn	10	500	Lawn	4	1	1
Inadequate Buffer	LP112118	Right	Neither			Forest	15	200	Shrubs & Small Trees	4	5	1
Inadequate Buffer	LP113114	Both	Neither	30	800	Forest	30	800	Forest	4	3	1
Inadequate Buffer	LP128105	Right	Right			Forest	10	200	Shrubs & Small Trees	4	2	1
Inadequate Buffer	LP132223	Left	Left	2	200	Lawn			Forest	4	2	2
Inadequate Buffer	LP132228	Right	Right			Forest	5	400	Lawn	4	3	2
Inadequate Buffer	LP132230	Right	Right			Forest	10	600	Lawn	4	2	2
Inadequate Buffer	LP135309	Both	Both	0	100	Lawn	0	100	Lawn	4	2	2
Inadequate Buffer	LP136306	Both	Both	0	100	Lawn	0	100	Lawn	4	2	2
Inadequate Buffer	LP137301	Both	Both	5	600	Crop field	5	600	Crop field	4	2	2
Inadequate Buffer	LP145306	Right	Neither			Shrubs & Small Trees	10	400	Lawn	4	2	2
Inadequate Buffer	LP145307	Both	Both	5	600	Lawn	5	600	Lawn	4	2	2
Inadequate Buffer	LP145312	Both	Left	0	800	Lawn	20	800	Shrubs & Small Trees	4	2	2
Inadequate Buffer	LP146302	Both	Both	5	250	Lawn	5	250	Lawn	4	2	2
Inadequate Buffer	LP146307	Both	Both	0	300	Lawn	0	300	Lawn	4	2	1
Inadequate Buffer	LP147302	Both	Both	0	400	Lawn	0	400	Lawn	4	2	2
Inadequate Buffer	LP157236	Both	Neither	0	600	Lawn	0	600	Lawn	4	2	3
Inadequate Buffer	LP158220	Both	Neither	10	400	Shrubs & Small Trees	10	400	Shrubs & Small Trees	4	3	3
Inadequate Buffer	LP162301	Both	Both	0	200	Crop field	0	200	Crop field	4	2	1
Inadequate Buffer	LP199103	Both	Both	0	200	Lawn	0	200	Lawn	4	2	2
Inadequate Buffer	LP031322	Both	Both	8	100	Lawn	8	100	Lawn	5	1	1
Inadequate Buffer	LP038311	Right	Both			Forest	8	400	Other	5	1	1
Inadequate Buffer	LP039305	Left	Neither	5	120	Lawn			Forest	5	1	1
Inadequate Buffer	LP057312	Left	Left	0	75	Paved			Forest	5	3	1
Inadequate Buffer	LP058318	Both	Left	15	300	Lawn	35	300	Forest	5	1	1
Inadequate Buffer	LP085137	Left	Neither	20	150	Lawn			Forest	5	2	1
Inadequate Buffer	LP105108	Left	Neither	3	100	Lawn			Forest	5	3	1
Inadequate Buffer	LP108205	Both	Both	10	600	Lawn	30	100	Lawn	5	3	2
Inadequate Buffer	LP123104	Both	Both	5	200	Pasture	5	200	Pasture	5	3	3
Inadequate Buffer	LP123106	Both	Neither	15	100	Lawn	15	150	Lawn	5	3	1
Inadequate Buffer	LP146308	Both	Both	0	150	Lawn	0	150	Lawn	5	2	2

Fish Barriers-Little Patuxent Watershed

Problem	Site Number	Blockage	Type	Reason	Drop(In)	Depth(In)	Severity	Correctability	Access
Fish Blockage	LP105106	Total	Concrete drop	Too high	12		2	3	1
Fish Blockage	LP099247	Total	Road crossing	Too high	12		2	4	1
Fish Blockage	LP115117	Total	Instream Pond	Too high	36		3	5	1
Fish Blockage	LP147301	Total	Road crossing	Too high	12		3	3	1
Fish Blockage	LP112122	Total	Dam	Too high	240		3	5	1
Fish Blockage	LP030313	Total	Pipe crossing	Too high	12		3	3	2
Fish Blockage	LP197115	Partial	Road crossing	Too high	12		3	4	1
Fish Blockage	LP082348	Total	Instream Pond	Too high	36		3	3	2
Fish Blockage	LP121109	Partial	Road crossing	Too shallow		0.5	3	3	2
Fish Blockage	LP083355	Total	Dam	Too high	120		3	5	1
Fish Blockage	LP080225	Total	Road crossing	Too shallow		1	3	5	2
Fish Blockage	LP031326	Total	Pipe crossing	Too high	18		3	5	2
Fish Blockage	LP041315	Total	Road crossing	Too high	6		3	3	2
Fish Blockage	LP041307	Total	Channelized	Too high	24		3	2	1
Fish Blockage	LP041302	Total	Road crossing	Too high	7		3	3	1
Fish Blockage	LP132216	Total	Dam	Too high	36		3	3	1
Fish Blockage	LP132224	Total	Road crossing	Too high	24		3	4	2
Fish Blockage	LP132225	Total	Road crossing	Too high	6		3	5	2
Fish Blockage	LP155126	Total	Road crossing	Too shallow		0.75	3	4	1
Fish Blockage	LP040313	Total	Pipe crossing	Too high	16		3	1	2
Fish Blockage	LP159209	Total	Road crossing	Too high	6		4	2	2
Fish Blockage	LP144307	Total	Dam	Too shallow		0.5	4	3	2
Fish Blockage	LP011103	Total	Road Crossing	Too high	12		4	5	1
Fish Blockage	LP137302	Total	Instream Pond	Too high	24		4	4	1
Fish Blockage	LP116102	Total	Gabion basket	Too high	12		4	2	3
Fish Blockage	LP114117	Total	Pipe crossing	Too high	36		4	3	2
Fish Blockage	LP058336	Total	Instream Pond	Too high	60		4	4	1
Fish Blockage	LP012104	Total	Pond				4	4	1
Fish Blockage	LP042305	Total	Dam	Too high	48		4	3	3
Fish Blockage	LP042304	Total	Dam	Too high	24		4	4	3
Fish Blockage	LP041326	Total	Weir	Too high	12		4	2	3
Fish Blockage	LP110121	Total	Dam	Too high	36		4	3	2
Fish Blockage	LP059309	Total	Channelized	Too high	14		4	4	2
Fish Blockage	LP126208	Temporary	Debris Dam	Too fast			4	1	2
Fish Blockage	LP110213	Total	Road crossing	Too high	12		4	3	1
Fish Blockage	LP110209	Temporary	Debris	Too fast			4	1	2
Fish Blockage	LP082342	Partial	Road crossing	Too shallow		0.25	4	3	1

Fish Barriers-Little Patuxent Watershed

Problem	Site Number	Blockage	Type	Reason	Drop(In)	Depth(In)	Severity	Correctability	Access
Fish Blockage	LP080204	Total	Pipe Outfall	Too high	96		4	3	3
Fish Blockage	LP060316	Total	Channelized	Too shallow		0.5	4	3	2
Fish Blockage	LP059317	Total	Channelized	Too high	18		4	4	2
Fish Blockage	LP059311	Total	Channelized	Too high	12		4	4	2
Fish Blockage	LP058321	Total	Dam	Too high	24		4	3	2
Fish Blockage	LP055219	Total	Natural falls	Too high	30		4	3	2
Fish Blockage	LP033211	Total	Natural falls	Too high	24		4	4	4
Fish Blockage	LP034204	Temporary	Debris Dam	Too shallow		0	5	1	3
Fish Blockage	LP157231	Partial	Natural falls	Too high	12		5	2	3
Fish Blockage	LP131217	Partial	Natural falls	Too high	12		5	1	2
Fish Blockage	LP033207	Temporary	Debris Dam	Too high	12		5	2	3
Fish Blockage	LP037306	Total	Debris Dam	Too shallow		0	5	1	2
Fish Blockage	LP011102	Total	Pond				5	4	1
Fish Blockage	LP107108	Temporary	Beaver Dam	Too high	24		5	1	1
Fish Blockage	LP044315	Total	Road crossing	Too high	14		5	4	1
Fish Blockage	LP081214	Total	Natural falls	Too high	120		5	5	1
Fish Blockage	LP059304	Total	Instream Pond	Too high	72		5	5	1
Fish Blockage	LP093213	Temporary	Beaver Dam	Too high	36		5	2	2
Fish Blockage	LP146305	Total	Natural falls	Too high	48		5	5	3
Fish Blockage	LP113113	Total	Road crossing	Too shallow		1	5	5	1
Fish Blockage	LP113115	Temporary	Debris Dam	Too shallow		0	5	1	1
Fish Blockage	LP197114	Temporary	Debris Dam	Too high	24		5	1	1
Fish Blockage	LP011116	Temporary	Debris Dam	Too high	36		5	1	1
Fish Blockage	LP197113	Temporary	Log	Too fast			5	1	1
Fish Blockage	LP049501	Partial	Natural falls	Too high	18		5	1	2
Fish Blockage	LP034205	Total	Natural falls	Too high	24		5	3	4
Fish Blockage	LP143304	Total	Dam	Too high	20		5	2	2
Fish Blockage	LP055216	Total	Road crossing	Too high	12		5	3	2
Fish Blockage	LP144312	Total	Natural falls	Too high	30		5	3	1
Fish Blockage	LP088241	Partial		Too high	6		5	2	3

Channel Alteration-Little Patuxent Watershed

Problem	Site number	Channel type	Width (in)	Length (ft)	Sediment deposition	Vegetation in channel	Part of road crossing?	Length above road (ft)	Length below road (ft)	Severity	Correctability	Access
Channel Alteration	LP085128	Concrete	30	500	No	No	No			2	4	1
Channel Alteration	LP107112	Concrete	30	600	Yes	Yes	Below		600	2	4	1
Channel Alteration	LP176116	Concrete	36	600	Yes	No	Below		600	2	4	1
Channel Alteration	LP001111	Concrete	12	300	No	No	No			3	5	1
Channel Alteration	LP009105	Concrete	48	700	Yes	No	Both	350	350	3	5	1
Channel Alteration	LP041307	Concrete	72	80	No	No	No			3	4	1
Channel Alteration	LP042304	Concrete	16	12	No	No	No			3	3	3
Channel Alteration	LP042305	Concrete	20	10	No	No	No			3	4	3
Channel Alteration	LP042310	Earth channel	24	600	No	No	No			3	3	1
Channel Alteration	LP057323	Concrete	24	800	Yes	Yes	Below		800	3	4	3
Channel Alteration	LP059309	Concrete	36	60	No	No	No			3	5	3
Channel Alteration	LP059311	Concrete	36	100	No	No	No			3	4	2
Channel Alteration	LP060316	Rip-rap	48	300	No	No	No			3	3	2
Channel Alteration	LP069216	Concrete	48	600	No	Yes	Below		600	3	4	3
Channel Alteration	LP074215	Concrete,Rip-	12	800	No	No	No			3	3	3
Channel Alteration	LP086230	Concrete	24	300	No	No	No			3	4	2
Channel Alteration	LP093107	Gabion	120	100	Yes	Yes	Below		100	3	4	1
Channel Alteration	LP158221	Concrete	24	225	No	No	Both	200	25	3	4	2
Channel Alteration	LP009103	Concrete	36	50	Yes	No	Below		50	4	3	1
Channel Alteration	LP022303	Concrete	36	60	Yes	No	No			4	3	2
Channel Alteration	LP023316	Timber	72	50	No	No	No			4	3	3
Channel Alteration	LP030302	Rip-rap	12	1000	No	No	No			4	5	1
Channel Alteration	LP039307	Concrete	24	10	No	No	No			4	4	3
Channel Alteration	LP040312	Rip-rap	72	40	No	No	No			4	3	2
Channel Alteration	LP041316	Concrete	84	30	Yes	No	Below		30	4	3	3
Channel Alteration	LP041326	Concrete	24	10	No	No	No			4	3	3
Channel Alteration	LP053308	Earth channel	20	1000	Yes	No	No			4	4	1
Channel Alteration	LP054306	Earth channel	24	600	No	Yes	No			4	4	1
Channel Alteration	LP059317	Concrete	96	15	No	No				4	3	2
Channel Alteration	LP088230	Concrete	24	75	Yes	No	No			4	3	1
Channel Alteration	LP089204	Earth channel	24	400	Yes	Yes	No			4	2	2
Channel Alteration	LP110210	Rip-rap	180	100	Yes	No	No			4	2	1
Channel Alteration	LP111209	Rip-rap	36	100	No	No	No			4	3	2
Channel Alteration	LP112109	Gabion	15	500	Yes	Yes	Above	500		4	3	1

Channel Alteration-Little Patuxent Watershed

Problem	Site number	Channel type	Width (in)	Length (ft)	Sediment deposition	Vegetation in channel	Part of road crossing?	Length above road (ft)	Length below road (ft)	Severity	Correctability	Access
Channel Alteration	LP125301	Concrete	12	500	Yes	No	No			4	3	1
Channel Alteration	LP143315	Earth channel	24	600	Yes	No	No			4	3	1
Channel Alteration	LP145308	Rip-rap	36	600	Yes	Yes	No			4	2	2
Channel Alteration	LP019302	Rip-rap	36	100	No	No	No			5	2	1
Channel Alteration	LP039311	Rip-rap		60	Yes	Yes	No			5	3	1
Channel Alteration	LP057313	Earth channel	30	75	Yes	No	No			5	1	2
Channel Alteration	LP098244	Earth channel	144	700	Yes	No	No			5	2	2
Channel Alteration	LP098245	Earth channel	6	500	No	No	No			5	2	2
Channel Alteration	LP121103	Wood	24	200	Yes	Yes	Above	200		5	1	1
Channel Alteration	LP144301	Earth channel	20	200	No	No	No			5	3	1

Exposed Pipe-Little Patuxent Watershed

Problem	Site number	Location	Type	Diameter (in)	Length(ft)	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Exposed Pipe	LP039303	Bottom of stream	Concrete	24	12	Sewage	Yes	Clear	Sewage	1	4	2
Exposed Pipe	LP064305	Bottom of stream	Concrete	24	15	Sewage	Yes	Gray	Sewage	1	4	3
Exposed Pipe	LP041312	Bottom of stream	Concrete	24	3	Sewage	No			2	3	2
Exposed Pipe	LP084314	Bottom of stream	Concrete	8	20	Unknown	No			2	3	2
Exposed Pipe	LP132218	Exposed over top	Smooth metal	2	25	Unknown	No			2	4	2
Exposed Pipe	LP023301	Exposed manhole	Concrete	36	6	Sewage	No			3	5	2
Exposed Pipe	LP028307	Bottom of stream	Concrete	18	30	Unknown	No			3	4	3
Exposed Pipe	LP039315	Bottom of stream	Smooth metal	12	12	Sewage	No			3	4	3
Exposed Pipe	LP063304	Bottom of stream	Concrete	24	15	Sewage	No			3	4	3
Exposed Pipe	LP063306	Bottom of stream	Concrete	24	15	Sewage	No			3	4	3
Exposed Pipe	LP088235	Along stream bank	Concrete	36	4	Stormwater	No			3	2	2
Exposed Pipe	LP092102	Bottom of stream	Smooth metal	8	10	Unknown	No			3	3	1
Exposed Pipe	LP097115	Bottom of stream	Concrete	12	6	Other	No			3	3	2
Exposed Pipe	LP108203	Exposed manhole	Concrete	24	5	Stormwater	No			3	5	2
Exposed Pipe	LP147304	Exposed over top	Smooth metal	6	10	supply	No			3	3	2
Exposed Pipe	LP155119	Bottom of stream	Smooth metal	4	12	Unknown	No			3	3	2
Exposed Pipe	LP155120	Bottom of stream	Smooth metal	4	12	Unknown	No			3	3	2
Exposed Pipe	LP023302	Bottom of stream	Concrete	18	6	Sewage	No			4	4	2
Exposed Pipe	LP030313	Exposed manhole	Concrete	48	5	Sewage	No			4	3	2
Exposed Pipe	LP030317	Bottom of stream	Smooth metal	3	6	Unknown	No			4	2	1
Exposed Pipe	LP031326	Exposed manhole	Concrete	30	1	Sewage	No			4	2	2
Exposed Pipe	LP040311	Bottom of stream	Concrete	18	5	Sewage	No			4	2	2
Exposed Pipe	LP040313	Bottom of stream	Concrete	18	5	Sewage	No			4	2	2
Exposed Pipe	LP042328	Bottom of stream	Smooth metal	12	10	Sewage	No			4	4	2
Exposed Pipe	LP063307	Bottom of stream	Concrete	24	10	Sewage	No			4	4	3
Exposed Pipe	LP067303	Exposed manhole	Concrete	36	4	Sewage	No			4	2	2
Exposed Pipe	LP088228	Along stream bank	Concrete	24	3	Stormwater	No			4	2	1
Exposed Pipe	LP106110	Along stream bank	Smooth metal	2	8	Unknown	No			4	2	1
Exposed Pipe	LP111102	Bottom of stream	corrugated metal	12	14	Unknown	No			4	3	1
Exposed Pipe	LP111208	Bottom of stream	Concrete	36	1	Sewage	No			4	2	2

Exposed Pipe-Little Patuxent Watershed

Problem	Site number	Location	Type	Diameter (in)	Length(ft)	Purpose	Discharge	Color	Odor	Severity	Correctability	Access
Exposed Pipe	LP121109	Bottom of stream	Plastic	6	5	Other	No			4	3	2
Exposed Pipe	LP134303	Bottom of stream	Concrete	24	6	Sewage	No			4	2	2
Exposed Pipe	LP135305	Along stream bank	corrugated metal	36	15	Stormwater	No			4	3	3
Exposed Pipe	LP159208	Exposed manhole	Concrete	36	5	Sewage	No			4	3	2
Exposed Pipe	LP169305	Exposed manhole	Concrete	36	4	Sewage	No			4	2	2
Exposed Pipe	LP021302	Exposed manhole	Concrete	36	3	Sewage	No			5	3	2
Exposed Pipe	LP039314	Along stream bank	Smooth metal	12	20	Unknown	No			5	4	1
Exposed Pipe	LP087235	Exposed over top	Plastic	4	5	Unknown	No			5	3	1
Exposed Pipe	LP091121	Exposed manhole	Concrete	30	5	Sewage	No			5	2	1
Exposed Pipe	LP109205	Exposed manhole	Concrete	36	3	Unknown	No			5	1	2
Exposed Pipe	LP109208	Exposed manhole	Concrete	36	5	Sewage	No			5	1	2
Exposed Pipe	LP109209	Exposed manhole	Concrete	24	1	Sewage	No			5	2	1
Exposed Pipe	LP110210	Exposed manhole	Concrete	24	1	Sewage	No			5	2	1
Exposed Pipe	LP112111	Along stream bank	Smooth metal	6	4	Unknown	No			5	2	1
Exposed Pipe	LP114111	Jutting out of bank	Plastic	3	3	Unknown	No			5	1	1
Exposed Pipe	LP142304	Bottom of stream	corrugated metal	12	6	Unknown	No			5	3	1
Exposed Pipe	LP162205	Along stream bank	Plastic	4	24	Unknown	No			5	2	3

Unusual Conditions-Little Patuxent Watershed

Site number	Problem	Code	Type	Description	Possible Cause	Severity	Correctability	Access
LP110234	Unusual Condition	UC	sewage	Manhole gushing sewage water.	Rusted through pipe.	1	5	2
LP086210	Unusual Condition	UC	odor	Sewage smelling odor and white scum on water.	Possible leak	2	3	3
LP110244	Unusual Condition	UC	red flock	Orange solids throughout stream.	Bacteria?	2	4	3
LP069220	Unusual Condition	UC	sewage	toilet paper found in yard and puddles; white gray water;	Flooding	2	3	1
LP082343	Unusual Condition	UC	sewage	grey scum in water; sewage odor; yellow foam	Sewer line leak	2	4	2
LP111103	Unusual Condition	UC	other	There is a barrel cemented in the middle of the stream.	Man made	3	3	1
LP081212	Unusual Condition	UC	other	orange solids discoloring stream for abouy 50 feet	Unknown	3	4	2
LP117110	Unusual Condition	UC	other	Storm drain manhole has trash coming out of the lid and eutrificated water coming out.	Trash	3	1	1
LP067303	Unusual Condition	UC	scum	Red flock, yellow foam, oily, brown scum	Runoff	3	4	2
LP142301	Unusual Condition	UC	algae		Lawn fertilizers	4	4	2
LP115110	Unusual Condition	UC	other	Metal sewer grates in middle of stream, with a wire leading into stream from a 460 volt, threephase box.	Man made	4	4	1
LP132247	Unusual Condition	UC	algae	Long,green thick strings.	Over fertilization originating from site 132249 PO?	4	4	3
LP141309	Unusual Condition	UC	algae		Possibly lawn fertilizers.	4	4	2

Unusual Conditions-Little Patuxent Watershed

LP181302	Unusual Condition	UC	algae	Lots of green slime in stream.	Fertilizer	4	4	3
LP080226	Unusual Condition	UC	algae	green and orange film on bottom of stream	Unknown	4	4	2
LP146310	Unusual Condition	UC	scum	Green scum and excessive algae. About 200 ft.	Run off from golf course.	4	1	3
LP083302	Unusual Condition	UC	red flock	Red flock throughout stream	Unknown	4	4	2
LP189303	Unusual Condition	UC	algae	Green algae clogging stream for about 150 ft.	Runoff	4	4	2
LP169308	Unusual Condition	UC	algae	Thick green algae from head of stream down 100 ft.	Runoff from residential area.	4	4	2
LP146309	Unusual Condition	UC	algae	Large amounts of green slime in ditch (soft).	Runoff from golfcourse.	4	4	2
LP082345	Unusual Condition	UC	other	open manhole at head of stream; potential safety hazard	Storm sewer	4	1	2
LP057330	Unusual Condition	UC	red flock	Red flock clogging stream leaving wetlands	Unknown	4	4	1
LP066303	Unusual Condition	UC	scum	Brownish-Yellow scum, red flock, excessive algae, oily	Runoff	4	4	2
LP039301	Unusual Condition	UC	red flock	100 ft of red flock in stream.	Iron Oxidation	4	4	2
LP105103	Unusual Condition	UC	scum	light brown foam	Unknown	5	3	2
LP038302	Unusual Condition	UC	other	Standing pool 200 sq. ft. of milky, scummy discharge; not going into stream at that time.	Runoff from Dobbin Auto Body, Aamaco and Columbia Auto Body in Columbia Auto Park.			2
LP056301	Unusual Condition	UC	other	ground slopes uphill at pipe outfall; stream bed non-existent for 35 feet below pipe	Sediment Deposition			

Trash Dumping-Little Patuxent Watershed

Problem	Site number	Type	Truckloads	Possible volunteer project?	Owner	Severity	Correctability	Access
Trash Dumping	LP031320	Construction	15	No	Unknown	2	2	1
Trash Dumping	LP008303	Industrial	2	No	Private	3	2	2
Trash Dumping	LP126209	Residential	2	Yes	Unknown	4	1	2
Trash Dumping	LP060319	Yard waste	3	Yes	Private	4	1	1
Trash Dumping	LP056302	Yard waste	4	Yes	Private	4	1	1
Trash Dumping	LP082346	Yard waste	2	Yes	Private	5	1	2
Trash Dumping	LP043308	Yard waste	1	Yes		5	1	1

In/near Stream Construction-Little Patuxent Watershed

Problem	Site number	Type	Sediment Control	Excess Sediment?	Company	Severity
Instream Construction	LP073218	Industrial	No	Yes	Unknown	3

Representative Sites A-Little Patuxent Watershed

Problem	Site number	Macroinvertebrate Substrate	Embeddedness	Shelter for Fish	Channel Alteration	Sediment Deposition	Velocity/Depth	Flow	Bank Vegetation	Bank Condition	Riparian Veg
Columbia Tributary 1											
Representative Site	LP135308	Poor	Poor	Marginal	Optimal	Poor	Suboptimal	Marginal	Optimal	Suboptimal	Suboptimal
Representative Site	LP158203	Suboptimal	Poor	Marginal	Suboptimal	Marginal	Marginal	Suboptimal	Suboptimal	Marginal	Suboptimal
Columbia Tributary 2											
Representative Site	LP132233	Marginal	Marginal	Marginal	Suboptimal	Marginal	Marginal	Suboptimal	Marginal	Marginal	Marginal
Representative Site	LP132220	Suboptimal	Suboptimal	Optimal	Suboptimal	Marginal	Optimal	Marginal	Marginal	Poor	Optimal
Representative Site	LP110214	Suboptimal	Poor	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Representative Site	LP132246	Suboptimal	Marginal	Marginal	Suboptimal	Suboptimal	Marginal	Optimal	Suboptimal	Optimal	Suboptimal
Representative Site	LP156252	Poor	Poor	Poor	Optimal	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal	Optimal
Columbia Tributary 3											
Representative Site	LP154110	Poor	Poor	Marginal	Optimal	Poor	Suboptimal	Marginal	Optimal	Suboptimal	Optimal
Representative Site	LP105109	Poor	Poor	Optimal	Optimal	Marginal	Optimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Golf Course Tributary											
Representative Site	LP090209	Suboptimal	Marginal	Suboptimal	Suboptimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Representative Site	LP091126	Marginal	Marginal	Marginal	Optimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Poor
Guilford Tributary											
Representative Site	LP010112	Marginal	Marginal	Optimal	Optimal	Poor	Suboptimal	Poor	Marginal	Suboptimal	Optimal
Representative Site	LP055203	Poor	Poor	Suboptimal	Optimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Poor
Representative Site	LP029303	Suboptimal	Marginal	Suboptimal	Optimal	Marginal	Suboptimal	Marginal	Poor	Marginal	Optimal
Representative Site	LP029307	Optimal	Suboptimal	Suboptimal	Optimal	Marginal	Suboptimal	Marginal	Poor	Suboptimal	Optimal
Representative Site	LP030314	Suboptimal	Suboptimal	Optimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Poor	Poor	Optimal
Representative Site	LP031325	Suboptimal	Suboptimal	Suboptimal	Optimal	Optimal	Optimal	Suboptimal	Optimal	Suboptimal	Suboptimal
Representative Site	LP032213	Marginal	Marginal	Marginal	Marginal	Suboptimal	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal
Representative Site	LP033209	Marginal	Poor	Marginal	Suboptimal	Marginal	Suboptimal	Suboptimal	Marginal	Suboptimal	Optimal
Representative Site	LP053310	Poor	Poor	Poor	Marginal	Optimal	Poor	Poor	Suboptimal	Optimal	Optimal
Representative Site	LP009107	Optimal	Suboptimal	Marginal	Suboptimal	Optimal	Suboptimal	Optimal	Optimal	Suboptimal	Marginal
Jonestown Tributary											
Representative Site	LP038312	Marginal	Marginal	Suboptimal	Optimal	Marginal	Marginal	Suboptimal	Optimal	Suboptimal	Suboptimal
Representative Site	LP057335	Marginal	Poor	Suboptimal	Optimal	Marginal	Marginal	Suboptimal	Marginal	Optimal	Suboptimal
Representative Site	LP042312	Suboptimal	Suboptimal	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Representative Site	LP042308	Marginal	Marginal	Suboptimal	Marginal	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal
Representative Site	LP041320	Marginal	Marginal	Optimal	Optimal	Marginal	Suboptimal	Suboptimal	Marginal	Marginal	Marginal
Representative Site	LP041303	Suboptimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Marginal	Suboptimal
Representative Site	LP040315	Poor	Poor	Marginal	Optimal	Poor	Marginal	Marginal	Marginal	Optimal	Suboptimal
Representative Site	LP040302	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Marginal	Suboptimal
Representative Site	LP039312	Marginal	Marginal	Marginal	Optimal	Poor	Marginal	Marginal	Suboptimal	Marginal	Optimal
Representative Site	LP056308	Marginal	Marginal	Suboptimal	Optimal	Marginal	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal
Representative Site	LP037305	Optimal	Suboptimal	Suboptimal	Optimal	Marginal	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal

Representative Sites A-Little Patuxent Watershed

Problem	Site number	Macroinvertebrate Substrate	Embeddedness	Shelter for Fish	Channel Alteration	Sediment Deposition	Velocity/Depth	Flow	Bank Vegetation	Bank Condition	Riparian Veg
Representative Site	LP082349	Poor	Poor	Suboptimal	Optimal	Optimal	Marginal	Optimal	Suboptimal	Suboptimal	Optimal
Representative Site	LP057315	Poor	Poor	Suboptimal	Optimal	Marginal	Marginal	Marginal	Optimal	Optimal	Optimal
Representative Site	LP058301	Marginal	Poor	Optimal	Optimal	Optimal	Marginal	Optimal	Optimal	Optimal	Suboptimal
Representative Site	LP058331	Marginal	Marginal	Optimal	Optimal	Marginal	Marginal	Marginal	Optimal	Suboptimal	Suboptimal
Lower Little Patuxent											
Representative Site	LP049109	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP126205	Suboptimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Marginal	Optimal	Suboptimal	Suboptimal	Optimal
Representative Site	LP109204	Poor	Poor	Suboptimal	Suboptimal	Marginal	Suboptimal	Optimal	Optimal	Marginal	Marginal
Representative Site	LP053307	Suboptimal	Marginal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Optimal	Optimal	Optimal
Representative Site	LP108205	Marginal	Marginal	Optimal	Suboptimal	Suboptimal	Marginal	Suboptimal	Marginal	Marginal	Marginal
Representative Site	LP108109	Suboptimal	Optimal	Optimal	Optimal	Suboptimal	Optimal	Marginal	Suboptimal	Suboptimal	Optimal
Representative Site	LP052104	Optimal	Suboptimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP051107	Optimal	Optimal	Optimal	Optimal	Optimal	Suboptimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP050108	Optimal	Suboptimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP106105	Marginal	Marginal	Optimal	Optimal	Suboptimal	Optimal	Optimal	Optimal	Suboptimal	Optimal
Representative Site	LP079307	Suboptimal	Marginal	Optimal	Suboptimal	Optimal	Suboptimal	Optimal	Optimal	Optimal	Suboptimal
Representative Site	LP027101	Optimal	Suboptimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Suboptimal	Suboptimal
Representative Site	LP080302	Suboptimal	Marginal	Marginal	Optimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Optimal
Representative Site	LP028309	Marginal	Poor	Marginal	Marginal	Suboptimal	Poor	Suboptimal	Marginal	Optimal	Optimal
Representative Site	LP028306	Optimal	Optimal	Suboptimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Poor
Representative Site	LP080209	Poor	Poor	Suboptimal	Suboptimal	Poor	Suboptimal	Suboptimal	Marginal	Marginal	Suboptimal
Representative Site	LP104204	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal	Optimal	Optimal	Marginal	Marginal	Optimal
Representative Site	LP105104	Marginal	Poor	Optimal	Optimal	Marginal	Optimal	Optimal	Optimal	Suboptimal	Optimal
Maple Grove Tributary											
Representative Site	LP162206	Poor	Poor	Poor	Suboptimal	Marginal	Poor	Optimal	Marginal	Marginal	Poor
Representative Site	LP163203	Suboptimal	Marginal	Suboptimal	Optimal	Suboptimal	Suboptimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP138310	Suboptimal	Suboptimal	Optimal	Poor	Suboptimal	Optimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP117109	Suboptimal	Marginal	Optimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal
Oakland Mills Tributary											
Representative Site	LP110237	Poor	Poor	Poor	Marginal	Marginal	Poor	Poor	Suboptimal	Marginal	Suboptimal
Representative Site	LP089201	Poor	Poor	Marginal	Optimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Representative Site	LP107116	Marginal	Marginal	Suboptimal	Optimal	Poor	Suboptimal	Poor	Optimal	Optimal	Optimal
Representative Site	LP088237	Poor	Marginal	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal	Marginal
Representative Site	LP060221	Suboptimal	Suboptimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Optimal	Marginal	Marginal	Optimal
Representative Site	LP086206	Suboptimal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal
Representative Site	LP063207	Poor	Marginal	Marginal	Suboptimal	Marginal	Marginal	Suboptimal	Marginal	Suboptimal	Suboptimal
Plumtree Branch											
Representative Site	LP098246	Marginal	Marginal	Marginal	Optimal	Suboptimal	Marginal	Optimal	Marginal	Suboptimal	Optimal

Representative Sites A-Little Patuxent Watershed

Problem	Site number	Macroinvertebrate Substrate	Embeddedness	Shelter for Fish	Channel Alteration	Sediment Deposition	Velocity/Depth	Flow	Bank Vegetation	Bank Condition	Riparian Veg
Representative Site	LP070223	Optimal	Optimal	Suboptimal	Suboptimal	Optimal	Suboptimal	Marginal	Suboptimal	Suboptimal	Marginal
Representative Site	LP068209	Marginal	Marginal	Optimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Marginal	Marginal
Representative Site	LP101204	Optimal	Optimal	Marginal	Optimal	Marginal	Optimal	Suboptimal	Suboptimal	Suboptimal	Marginal
Red Hill Branch											
Representative Site	LP023315	Suboptimal	Marginal	Suboptimal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal
Representative Site	LP046303	Marginal	Marginal	Suboptimal	Optimal	Poor	Suboptimal	Marginal	Marginal	Marginal	Suboptimal
Representative Site	LP021304	Poor	Poor	Suboptimal	Poor	Optimal	Marginal	Suboptimal	Marginal	Marginal	Suboptimal
Unnamed Tributary											
Representative Site	LP080224	Suboptimal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal	Marginal	Marginal
Representative Site	LP054220	Suboptimal	Marginal	Optimal	Suboptimal	Marginal	Suboptimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Upper Little Patuxent											
Representative Site	LP094111	Poor	Poor	Optimal	Optimal	Marginal	Optimal	Marginal	Suboptimal	Suboptimal	Optimal
Representative Site	LP112104	Optimal	Optimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Optimal	Optimal	Optimal	Optimal
Representative Site	LP113103	Marginal	Poor	Optimal	Optimal	Poor	Suboptimal	Marginal	Optimal	Optimal	Optimal
Representative Site	LP120112	Marginal	Marginal	Suboptimal	Optimal	Marginal	Optimal	Marginal	Optimal	Suboptimal	Optimal
Representative Site	LP121102	Suboptimal	Suboptimal	Suboptimal	Optimal	Suboptimal	Optimal	Suboptimal	Optimal	Suboptimal	Optimal
Representative Site	LP121104	Poor	Poor	Marginal	Marginal	Poor	Marginal	Marginal	Suboptimal	Marginal	Suboptimal
Representative Site	LP143310	Suboptimal	Marginal	Optimal	Marginal	Suboptimal	Optimal	Suboptimal	Suboptimal	Marginal	Suboptimal
Representative Site	LP144308	Marginal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Marginal	Poor	Suboptimal
Representative Site	LP146301	Optimal	Marginal	Optimal	Suboptimal	Suboptimal	Marginal	Optimal	Suboptimal	Suboptimal	Poor
Representative Site	LP146304	Suboptimal	Suboptimal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Optimal	Optimal
Representative Site	LP189302	Suboptimal	Poor	Suboptimal	Optimal	Poor	Marginal	Suboptimal	Suboptimal	Suboptimal	Optimal
Representative Site	LP196103	Suboptimal	Marginal	Suboptimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Suboptimal	Optimal
Representative Site	LP199104	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Suboptimal	Optimal
Representative Site	LP205105	Suboptimal	Suboptimal	Optimal	Optimal	Suboptimal	Suboptimal	Suboptimal	Optimal	Suboptimal	Optimal
Representative Site	LP203107	Optimal	Suboptimal	Suboptimal	Optimal	Suboptimal	Marginal	Suboptimal	Optimal	Suboptimal	Optimal

Representative Sites B-Little Patuxent Watershed

Problem	Site number	Width Riffle (in)	Width Run (in)	Width Pool (in)	Depth Riffle (in)	Depth Run (in)	Depth Pool (in)	Bottom Type
Columbia Tributary 1								
Representative Site	LP135308	36	36	48	1	4	12	sand
Representative Site	LP158203	24	48	24	0.5	4	6	gravel
Columbia Tributary 2								
Representative Site	LP132233	24	36	48	1	2	6	gravel
Representative Site	LP132220	48	48	72	2	6	18	cobble
Representative Site	LP110214	24	36	36	1	12	12	gravel
Representative Site	LP132246	36	24	50	2	4	12	cobble
Representative Site	LP156252	12	8	24	0.25	1	6	sand
Columbia Tributary 3								
Representative Site	LP154110		42	60		4	16	sand
Representative Site	LP105109	30	60	48	5	7	24	sand
Golf Course Tributary								
Representative Site	LP090209	36	42	24	2	5	8	gravel
Representative Site	LP091126	48	72	24	2	12	16	sand
Guilford Tributary								
Representative Site	LP010112	48	48	48	4	12	24	gravel
Representative Site	LP055203	12	24	36	1	4	12	gravel
Representative Site	LP029303	24	40	72	4	8	14	gravel
Representative Site	LP029307	48	48	60	1	4	8	cobble
Representative Site	LP030314	60	60	60	3	6	18	gravel
Representative Site	LP031325	26	66	54	2	10	16	cobble
Representative Site	LP032213	10	24	24	1	2	6	gravel
Representative Site	LP033209	36	48	48	2	4	8	gravel
Representative Site	LP053310		24	16		3	6	silt
Representative Site	LP009107	60	60	18	3	6	6	cobble
Jonestown Tributary								
Representative Site	LP038312	72	120	120	1	8	20	sand
Representative Site	LP057335		48	60		6	36	sand
Representative Site	LP042312	24	48	36	1	4	8	gravel
Representative Site	LP042308	12	32	24	0.5	2	6	sand
Representative Site	LP041320	36	40	48	2	6	16	gravel
Representative Site	LP041303	30	42	24	1	3	6	sand
Representative Site	LP040315	36	36	36	0.25	2	15	sand
Representative Site	LP040302	72	72	56	3	8	15	gravel
Representative Site	LP039312	36	48	40	3	9	24	sand
Representative Site	LP056308	12	36	36	0.5	4	6	gravel
Representative Site	LP037305	10	12	14	1	2	3	cobble

Representative Sites B-Little Patuxent Watershed

Problem	Site number	Width Riffle (in)	Width Run (in)	Width Pool (in)	Depth Riffle (in)	Depth Run (in)	Depth Pool (in)	Bottom Type
Representative Site	LP082349	12	48	48	1	6	9	silt
Representative Site	LP057315		48	60		6	4	sand
Representative Site	LP058301	2	16	14	1	3	5	
Representative Site	LP058331		50	60		6	12	gravel
Lower Little Patuxent								
Representative Site	LP049109	600	700	700	12	24	48	bedrock
Representative Site	LP126205	12	36	36	1	4	8	gravel
Representative Site	LP109204	120	300		6	48		sand
Representative Site	LP053307	120	168	96	4	14	20	gravel
Representative Site	LP108205	36	24	24	1	4	6	sand
Representative Site	LP108109	120	216	72	12	24	8	gravel
Representative Site	LP052104	240	240	120	4	6	24	
Representative Site	LP051107	48	50	48	5	12	20	
Representative Site	LP050108	300	500	120	12	36	48	bedrock
Representative Site	LP106105	200	200	72	12	18	48	gravel
Representative Site	LP079307	12	22	12	1	3	5	cobble
Representative Site	LP027101	240	240	120	4	24	48	cobble
Representative Site	LP080302	120	180	96	4	14	22	sand
Representative Site	LP028309		480			7		sand
Representative Site	LP028306	180	240	96	12	16	22	cobble
Representative Site	LP080209	120	150	48	2	10	36	sand
Representative Site	LP104204	144	190	72	6	18	48	sand
Representative Site	LP105104	72	200	48	18	18	56	sand
Maple Grove Tributary								
Representative Site	LP162206		36			3		sand
Representative Site	LP163203	24	60	48	0.5	2	8	gravel
Representative Site	LP138310	60	60	144	0.5	12	36	gravel
Representative Site	LP117109	60	60	60	1	3	12	gravel
Oakland Mills Tributary								
Representative Site	LP110237	24	12		0.25	1		sand
Representative Site	LP089201	36	36	36	1	4	48	sand
Representative Site	LP107116	36	42	24	4	4	12	sand
Representative Site	LP088237	24	36	48	1	4	12	sand
Representative Site	LP060221	36	48	30	0.5	2	6	gravel
Representative Site	LP086206	18	48	48	1	3	12	gravel
Representative Site	LP063207	24	36	48	0.5	1	6	sand
Plumtree Branch								
Representative Site	LP098246	40	144	24	1	4	12	sand

Representative Sites B-Little Patuxent Watershed

Problem	Site number	Width Riffle (in)	Width Run (in)	Width Pool (in)	Depth Riffle (in)	Depth Run (in)	Depth Pool (in)	Bottom Type
Representative Site	LP070223		50	36		3	6	sand
Representative Site	LP068209		60	48		6	12	sand
Representative Site	LP101204		24	12		4	6	sand
Red Hill Branch								
Representative Site	LP023315	54	60	30	2	8	16	gravel
Representative Site	LP046303	72	36	48	2	8	12	gravel
Representative Site	LP021304	18	36	30	1	8	12	silt
Unnamed Tributary								
Representative Site	LP080224	12	48	36	1	3	6	gravel
Representative Site	LP054220	12	24	84	1	12	36	cobble
Upper Little Patuxent								
Representative Site	LP094111		120	72		6	30	sand
Representative Site	LP112104	120	120	72	6	18	36	cobble
Representative Site	LP113103	120	240	72	4	24	48	sand
Representative Site	LP120112	36	72	84	1	4	48	gravel
Representative Site	LP121102	96	96	120	3	12	39	sand
Representative Site	LP121104		36			2		silt
Representative Site	LP143310	48	84	96	3	8	32	gravel
Representative Site	LP144308	24	24	20	1	5	8	silt
Representative Site	LP146301	12	30	14	0.5	3	4	silt
Representative Site	LP146304	60	48	60	1	4	6	gravel
Representative Site	LP189302	12	24		1	3		silt
Representative Site	LP196103	60	72	36	1	12	18	gravel
Representative Site	LP199104	120	96	60	2	5	24	cobble
Representative Site	LP205105	36	36	24	2	5	12	gravel
Representative Site	LP203107	48	36	24	1	6	12	cobble

Pond Sites-Little Patuxent Watershed

Problem	Site number	Primary Use	Type	Maintained?	Eutrophication?	Trees on embankment/animal burrows
Pond Site	LP001110	Instream	Wet	Unknown	Yes	No
Pond Site	LP001112	Unknown	Dry	Unknown	Dry	Yes
Pond Site	LP002109	Stormwater	Wet	Unknown	Yes	Yes
Pond Site	LP002113	Stormwater	Wet	Unknown	Yes	No
Pond Site	LP008301	Stormwater	Wet	Yes	No	Yes
Pond Site	LP011102	Stormwater	Wet	No	Yes	No
Pond Site	LP012104	Stormwater	Wet	Unknown	Yes	No
Pond Site	LP012107	Stormwater	Dry	Unknown	Dry	Yes
Pond Site	LP012108	Stormwater	Dry	Unknown	Dry	No
Pond Site	LP019301	Stormwater	Wetlands	Yes	Dry	Yes
Pond Site	LP019305	Stormwater	Wet	Yes	No	No
Pond Site	LP019306	Stormwater	Wet	Yes	Yes	No
Pond Site	LP020301	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP021305	Stormwater	Wet	Yes	Too Cold	Yes
Pond Site	LP021307	Stormwater	Wet	Yes	Too Cold	No
Pond Site	LP023306	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP023307	storm water	Dry	Yes	Dry	Yes
Pond Site	LP023313	Storm water	Wet	Yes	No	Yes
Pond Site	LP024301	Stormwater	Wetlands	Yes	No	No
Pond Site	LP024303	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP024304	Stormwater	Wetlands	Yes	Dry	Yes
Pond Site	LP024307	Stormwater	Wetlands	Yes	Dry	Yes
Pond Site	LP024308	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP024311	Farm	Wet	Yes	Yes	Yes
Pond Site	LP024312	Stormwater	Dry	Yes	Dry	No
Pond Site	LP025301	Stormwater	Wet	Yes	No	Yes
Pond Site	LP028304	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP028305	Stormwater	Wet	Yes	No	Yes
Pond Site	LP028312	Stormwater	Dry	Yes	Dry	No
Pond Site	LP031303	Stormwater	Wet	Yes	No	Yes
Pond Site	LP031305	Stormwater	Wet	Yes	No	Yes
Pond Site	LP032207	Stormwater	Wetlands	No	No	No
Pond Site	LP037309	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP038303	Stormwater	Wet	No	No	Yes
Pond Site	LP038305	Stormwater	Dry	Yes	Dry	No
Pond Site	LP038308	Stormwater	Wet	Abandoned	No	Yes
Pond Site	LP038313	Stormwater	Dry	Abandoned	Dry	Yes
Pond Site	LP038314	Stormwater	Wet	Yes	No	No
Pond Site	LP038322	Stormwater	Wet	Yes	No	No

Pond Sites-Little Patuxent Watershed

Problem	Site number	Primary Use	Type	Maintained?	Eutrophication?	Trees on embankment/animal burrows
Pond Site	LP040304	Stormwater	yes	Yes	Dry	Yes
Pond Site	LP040305	Stormwater	Dry	Yes	Dry	No
Pond Site	LP041309	Stormwater	Wet	Yes	No	Yes
Pond Site	LP041311	Wildlife	Wet	Yes	No	Yes
Pond Site	LP041325	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP043304	Stormwater	Wet	Yes	Too cold	No
Pond Site	LP043309	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP043311	Stormwater	Dry	Yes	Dry	No
Pond Site	LP043312	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP044312	Stormwater	Wetlands	No	No	Yes
Pond Site	LP044331	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP044333	Stormwater	Dry	No	Dry	Yes
Pond Site	LP045301	Stormwater	Wet	Yes	No	No
Pond Site	LP046301	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP046305	Stormwater	Wet	Yes	No	Yes
Pond Site	LP046307	Wildlife	Wetlands	Yes	Yes	Yes
Pond Site	LP047302	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP047303	Wildlife	Wetlands	Yes	Yes	Yes
Pond Site	LP048201	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP051330	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP054311	Stormwater	Wet	Yes	No	No
Pond Site	LP055215	Stormwater	Wet	Yes	No	Yes
Pond Site	LP056340	Stormwater	Wet	Yes	No	Yes
Pond Site	LP057314	Wildlife	Wet	Yes	Yes	Yes
Pond Site	LP057328	Stormwater	Dry	No	Dry	Yes
Pond Site	LP057338	Wildlife	Wetlands	Yes	Dry	Yes
Pond Site	LP058335	Stormwater	Wet	Yes	No	Yes
Pond Site	LP058339	Stormwater	Dry	Yes	Dry	No
Pond Site	LP059304	Stormwater	Wet	Yes	No	Yes
Pond Site	LP059308	Stormwater	Wet	Yes	No	Yes
Pond Site	LP059310	Stormwater	Wet	Yes	No	Yes
Pond Site	LP059312	Stormwater	Wet	Yes	No	Yes
Pond Site	LP060317	Stormwater	Wet	Yes	No	Yes
Pond Site	LP060318	Stormwater	Wet	Yes	No	Yes
Pond Site	LP060319	Stormwater	Dry	Yes	Dry	No
Pond Site	LP060320	Farm	Wet	Abandoned	No	Yes
Pond Site	LP061321	Stormwater	Dry	Yes	Dry	No
Pond Site	LP061322	Stormwater	Wet	Yes	No	Yes
Pond Site	LP061327	Stormwater	Dry	Yes	Dry	No

Pond Sites-Little Patuxent Watershed

Problem	Site number	Primary Use	Type	Maintained?	Eutrophication?	Trees on embankment/animal burrows
Pond Site	LP062301	Wildlife	Wet	Yes	No	Yes
Pond Site	LP064303	Stormwater	Wet	Yes	Too Cold	Yes
Pond Site	LP065303	Stormwater	Dry	Yes	Dry	No
Pond Site	LP065305	Stormwater	Dry	No	Dry	Yes
Pond Site	LP065310	industrial outfall	Dry	Yes	Dry	No
Pond Site	LP066304	Stormwater	Dry	Yes	Dry	No
Pond Site	LP067207	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP067208	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP067219	Stormwater	Wet	Yes	No	No
Pond Site	LP067301	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP067302	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP067306	Stormwater	Wetlands	Yes	Yes	Yes
Pond Site	LP067307	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP068205	Stormwater	Wet	Yes	No	Yes
Pond Site	LP068215	Stormwater	Wet	Yes	Too Cold	No
Pond Site	LP068217	Unknown	Wet	Yes	Yes	Yes
Pond Site	LP069203	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP072256	Stormwater	Wet	Yes	No	No
Pond Site	LP073216	Stormwater	Dry	Yes	Dry	No
Pond Site	LP073217	Stormwater	Wet	Yes	No	Yes
Pond Site	LP074214	Stormwater	Wet	Yes	Yes	No
Pond Site	LP075203	Unknown	Wet	Yes	Yes	Yes
Pond Site	LP080201	Stormwater	Dry	Yes	No	No
Pond Site	LP080203	Unknown	Wet	Yes	No	Yes
Pond Site	LP080204	Stormwater	Wet	Abandoned	No	Yes
Pond Site	LP080205	Stormwater	Wet	Abondoned	Yes	No
Pond Site	LP080304	Recreation	Wet	Yes	No	Yes
Pond Site	LP081213	Stormwater	Dry	Yes	Dry	No
Pond Site	LP081214	Stormwater	Dry	No	Dry	Yes
Pond Site	LP081215	Stormwater	Wet	Yes	No	No
Pond Site	LP081217	Stormwater	Wet	Yes	No	Yes
Pond Site	LP082348	Wildlife	Wetlands	Yes	No	Yes
Pond Site	LP083301	Wildlife	Wetlands	Yes	No	Yes
Pond Site	LP083350	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP084309	Stormwater	Wet	Yes	No	No
Pond Site	LP084313	Stormwater	Wet	Yes	No	Yes
Pond Site	LP086204	Stormwater	Wet	Yes	No	Yes
Pond Site	LP089203	Unknown	Wet	Yes	Too Cold	No
Pond Site	LP089242	Stormwater	Dry	Yes	No	No

Pond Sites-Little Patuxent Watershed

Problem	Site number	Primary Use	Type	Maintained?	Eutrophication?	Trees on embankment/animal burrows
Pond Site	LP089243	Stormwater	Dry	Yes	Yes	Yes
Pond Site	LP089244	Stormwater	Dry	Yes	No	No
Pond Site	LP089245	Stormwater	Wet	Yes	No	Yes
Pond Site	LP089246	Stormwater	Dry	Yes	No	Yes
Pond Site	LP090208	Stormwater	Dry	Yes	Dry	No
Pond Site	LP090212	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP091128	Stormwater	Wet	Yes	Too Cold	Yes
Pond Site	LP093206	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP094108	Stormwater	Wet	Yes	No	Yes
Pond Site	LP096103	Stormwater	Wet	Yes	No	Yes
Pond Site	LP097237	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP098239	Unknown	Wetlands	Abandoned	Yes	Yes
Pond Site	LP098240	Unknown	Wetlands	Abandoned	Yes	Yes
Pond Site	LP100255	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP101201	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP101203	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP101254	Stormwater	Wet	Yes	No	Yes
Pond Site	LP106106	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP109207	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP110233	Stormwater	Wet	Yes	No	Yes
Pond Site	LP110239	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP110242	personal	Wet	Yes	Yes	Yes
Pond Site	LP112107	Wildlife	Wet	Unknown	No	Yes
Pond Site	LP112113	Stormwater	Dry	Abandoned	Dry	Yes
Pond Site	LP113108	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP114105	Stormwater	Wet	Yes	Too Cold	No
Pond Site	LP114116	Recreation	Wetlands	Yes	No	Yes
Pond Site	LP114118	Stormwater	Other	Yes	Too Cold	Yes
Pond Site	LP116101	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP116105	Stormwater	Dry	No	Dry	Yes
Pond Site	LP117102	Stormwater	Wet	Yes	No	Yes
Pond Site	LP117104	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP118112	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP119110	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP119111	Stormwater	Other	Abandoned	No	Yes
Pond Site	LP120104	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP120105	Stormwater	Wet	Yes	No	Yes
Pond Site	LP120106	Stormwater	Wet	Yes	No	Yes
Pond Site	LP121101	Stormwater	Wetlands	Yes	No	Yes

Pond Sites-Little Patuxent Watershed

Problem	Site number	Primary Use	Type	Maintained?	Eutrophication?	Trees on embankment/animal burrows
Pond Site	LP122103	Stormwater	Wet	Yes	No	Yes
Pond Site	LP123107	Recreation	Wet	Yes	No	Yes
Pond Site	LP123115	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP124111	Recreation	Wet	Yes	No	Yes
Pond Site	LP125106	Stormwater	Wet	Yes	No	Yes
Pond Site	LP128103	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP128218	Unknown	Wet	Yes	Yes	Yes
Pond Site	LP129107	Stormwater	Dry	Abandoned	No	Yes
Pond Site	LP129108	Stormwater	Wet	Yes	No	Yes
Pond Site	LP129109	Stormwater	Wet	Yes	No	Yes
Pond Site	LP129111	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP132215	Recreation	Wet	Yes	No	Yes
Pond Site	LP136302	Wildlife	Wet	Yes	Too Cold	Yes
Pond Site	LP136303	Stormwater	Wet	Yes	Too Cold	Yes
Pond Site	LP137301	Wildlife	Wet	Yes	Too Cold	Yes
Pond Site	LP137302	Stormwater	Wet	Yes	No	Yes
Pond Site	LP138301	Stormwater	Wetlands	Yes	Yes	Yes
Pond Site	LP139106	Stormwater	Wet	Yes	No	Yes
Pond Site	LP139304	Stormwater	Wet	Yes	No	Yes
Pond Site	LP140201	Stormwater	Wet	Yes	Yes	No
Pond Site	LP141203	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP141301	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP141302	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP141304	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP141305	Stormwater	Dry	Yes	Dry	No
Pond Site	LP142316	Stormwater	Wetlands	Yes	Yes	Yes
Pond Site	LP143307	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP143308	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP143309	Stormwater	Wetlands	Yes	Yes	Yes
Pond Site	LP144303	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP144305	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP144309	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP144315	Stormwater	Wet	Yes	No	Yes
Pond Site	LP145301	Unknown	Wet	Yes	Yes	Yes
Pond Site	LP145303	Stormwater	Wetlands	Yes	No	Yes
Pond Site	LP145304	Stormwater	Wetlands	Yes	Yes	Yes
Pond Site	LP145313	Wildlife	Wet	Yes	Yes	Yes
Pond Site	LP147103	Stormwater	Dry	Yes	Dry	No
Pond Site	LP147104	Stormwater	Wet	Yes	No	No

Pond Sites-Little Patuxent Watershed

Problem	Site number	Primary Use	Type	Maintained?	Eutrophication?	Trees on embankment/animal burrows
Pond Site	LP148105	Stormwater	Wet	Yes	No	Yes
Pond Site	LP154114	Recreation	Wet	Yes	No	Yes
Pond Site	LP155117	Stormwater	Wet	Yes	No	Yes
Pond Site	LP155128	Recreation	Wet	Yes	No	Yes
Pond Site	LP156106	Stormwater	Wetlands	No	No	Yes
Pond Site	LP157236	Stormwater	Wet	Yes	No	No
Pond Site	LP169301	Stormwater	Wetlands	Yes	Dry	Yes
Pond Site	LP169304	Stormwater	Dry	Yes	Dry	No
Pond Site	LP169305	Stormwater	Dry	No	Dry	Yes
Pond Site	LP170301	Stormwater	Dry	Yes	Dry	No
Pond Site	LP170302	Wildlife	Wet	Yes	Yes	Yes
Pond Site	LP170303	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP170304	Stormwater	Wetlands	Yes	Yes	No
Pond Site	LP172102	Stormwater	Dry	Yes	Dry	Yes
Pond Site	LP180215	Stormwater	Wet	Yes	Yes	Yes
Pond Site	LP180216	Stormwater	Wet	Yes	No	Yes
Pond Site	LP180217	Stormwater	Wet	Yes	No	Yes
Pond Site	LP181301	Stormwater	Wet	No	Yes	No
Pond Site	LP182301	Stormwater	Wetlands	Abandoned	No	Yes
Pond Site	LP189301	Stormwater	Wet	Yes	Yes	No
Pond Site	LP189304	Wildlife	Wet	Yes	Yes	Yes
Pond Site	LP190301	Stormwater	Wetlands	Yes	Yes	No
Pond Site	LP192101	Stormwater	Wet	Yes	Yes	No
Pond Site	LP196101	Stormwater	Wet	Yes	No	Yes
Pond Site	LP197110	Stormwater	Wet	Yes	No	No
Pond Site	LP197111	Stormwater	Wet	Yes	No	No
Pond Site	LP198102	Wildlife	Wet	Yes	No	Yes
Pond Site	LP198115	Wildlife	Wet	Yes	No	Yes
Pond Site	LP203106	Stormwater	Wet	Yes	No	No
Pond Site	LP203109	Stormwater	Wet	Yes	No	No
Pond Site	LP205106	Stormwater	Wet	Yes	Yes	No
Pond Site	LP205107	Stormwater	Wet	Yes	No	No
Pond Site	LP205108	Stormwater	Wet	Yes	Yes	No
Pond Site	LP205109	Stormwater	Wet	Yes	No	No