











Robert L. Ehrlich, Jr. Governor

Michael S. Steele Lieutenant Governor

A Message To Maryland Citizens

The Maryland Department of Natural Resources (DNR) seeks to preserve, protect and enhance the living resources of the state. Working in partnership with the citizens of Maryland, this worthwhile goal will become a reality. This publication provides information that will increase your understanding of how DNR strives to reach that goal through its many diverse programs.

C. Ronald Franks
Secretary

W.P. Jensen Deputy Secretary



Maryland Department of Natural Resources Tawes State Office Building 580 Taylor Avenue Annapolis, Maryland 21401

Toll free in Maryland: 1-(877) 620-8DNR (ext. 8796)

Out of state call: 410-260-8796

www.dnr.state.md.us

The facilities and services of the Maryland Department of Natural Resources are available to all without regard to race, color, religion, sex, sexual orientation, age, national origin, physical or mental disability.

This document is available in alternative format upon request from a qualified individual with a disability.



UPPER PATUXENT IN PRINCE GEORGES CO. STREAM CORRIDOR ASSESSMENT SURVEY

AUTHORS

Robin Pellicano and Kenneth T. Yetman

PREPARED BY

WATERSHED RESTORATION DIVISION CHESAPEAKE AND COASTAL WATERSHED SERVICES MARYLAND DEPARTMENT OF NATURAL RESOURCES ANNAPOLIS, MARYLAND

February 2003



Financial Assistance provided by the Coastal Zone Management Act of 1972, as amended, administered by the Office of Ocean and Coastal Resource Management, National Oceanic and Atmospheric Administration (NOAA). A report of the Maryland Coastal Zone Management Program, Department of Natural Resources pursuant to NOAA Award No. NA17OZ1124.

SUMMARY

The Upper Patuxent River Watershed encompasses 56,399 acres (88 square miles). Most of the watershed lies in Anne Arundel and Prince George's Counties with a small portion (3 %) of the watershed extending into Howard and Montgomery Counties. In 1998, the Maryland Clean Water Action Plan identified the Upper Patuxent River as one of the State's water bodies that did not meet water quality requirements. In 2002, the Maryland Department of Natural Resources formed a partnership with Anne Arundel and Prince George's Counties to develop a Watershed Restoration Action Strategy for the Upper Patuxent Watershed. One of the first steps in developing a Watershed Restoration Action Strategy is to perform an overall assessment of environmental conditions in the watershed. One of the tools that has been developed by DNR to help assess the present environmental condition of the stream network in a watershed is the Stream Corridor Assessment survey. This report presents the results of the Stream Corridor Assessment survey that was done in the Prince George's portion of the Upper Patuxent River Watershed. A separate report has already presented the results of another Stream Corridor Assessment survey that was done in the Anne Arundel portion of the watershed.

This survey is not intended to be a detailed scientific evaluation of the watershed. Instead, the 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 an overall watershed characterization and a synoptic water quality survey about the Upper Patuxent River Watershed to develop a Watershed Restoration Action Strategy.

Prince George's County encompasses approximately 57 % (32,410 acres) of the Upper Patuxent Watershed. Between November and December, 2002 approximately 60 miles of stream in selected sub-basins in the Upper Patuxent Watershed were surveyed. During the survey, 630 potential environmental problems were identified. The most common environmental concern seen during the SCA survey was pipe outfalls, which was reported at 197 sites. Other potential environmental problems recorded during the survey include: 145 fish migration barriers, 85 erosion sites, 72 sites with inadequately vegetated stream buffers, 41 unusual condition sites, 31 channel alteration sites, 31 trash dumping sites, 26 exposed pipes and 2 in/near stream construction sites.

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 68 representative sites that were spaced at approximately ½ to 1 mile intervals along the stream.

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 important to note that all the problems identified 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.

ACKNOWLEDGEMENTS

Without the hard work and dedication of the Chesapeake Bay Crew of the Maryland Conservation Corps, this survey would not have been possible. The crew chief during the survey was Tina Stevens. The crewmembers Frank Simmons, Zach Smith, Emma White, Jessica Hunicke, Abbey Tyrna, Lauren DeWitt, Manny Citron, Sarah Scott, and Sarah Stankorb.

TABLE OF CONTENTS

| SUMMARY | İ |
|-------------------------|-----|
| ACKNOWLEDGEMENTS | ii |
| TABLEN OF CONTENTS | iii |
| INTRODUCTION | 1 |
| METHODS | 8 |
| RESULTS | 14 |
| Pipe Outfalls | 16 |
| Fish Migration Barriers | 21 |
| Erosion. | 24 |
| Inadequate Buffers | 26 |
| Unusual Conditions. | 28 |
| Channel Alterations | 30 |
| Trash Dumping | 32 |
| Exposed Pipes | 34 |
| Construction | 36 |
| Representative Sites | 38 |

| DISCUSSION | 4(|
|--|----|
| REFERENCES | 41 |
| | |
| | |
| APPENDIX A - Listing of sites by site number | |
| APPENDIX B - Listing of sites by problem | |

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 Upper Patuxent River. A map showing the location of the Upper Patuxent River Watershed is presented in Figure 1. The watershed encompasses 56,399 acres and lies entirely within Maryland's Coastal Plain. While most of the watershed is in Anne Arundel (22,244 acres) and Prince George's Counties (32,410 acres), a small portion of the watershed also extends into both Howard and Montgomery Counties (1,745 acres). In response to the findings of the Maryland Clean Water Action Plan, the Maryland Department of Natural Resources has formed a partnership with Anne Arundel and Prince George's Counties to work together to assess and improve environmental conditions in the Upper Patuxent Watershed. The main goal of this partnership is to develop and implement a Watershed Restoration Action Strategy (WRAS) for Upper Patuxent Watershed

The first step in developing a Restoration Action Strategy for the Upper 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 done to compile and analyze existing water quality, land use, and living resources data about the Upper Patuxent Watershed. While the watershed characterization provides good overall information on environmental conditions within the Upper 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 synoptic water quality survey and a Stream Corridor Assessment (SCA) survey of the Upper Patuxent Watershed were also done. The synoptic survey was done in the spring of 2002 and results of the survey can be found at http://www.dnr.state.md.us/watersheds/surf/proj/wras.html

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 helps 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. Field surveys were done from November 2002 through December 2002.

This report presents results of the Stream Corridor Assessment survey that was done on the Prince George's County side of the watershed. Results of the Stream Corridor Assessment survey on the Anne Arundel County side of the watershed has already been presented in a separate report. The Prince George's County portion of the watershed encompasses 57% of the total watershed area and there are approximately 184 miles of stream within the whole watershed, of which 60 miles were surveyed.

The Prince George's County's portion of the Upper Patuxent River Watershed encompasses 32,410 acres (50 square miles). Approximately 48.3% of this portion of the watershed is in urban land use and includes the communities of Beltsville, Laurel, Lanham, and

Bowie. Figure 1 shows the geographic location of the watershed targeted in this survey. Figure 1a shows the Prince George's portion of the watershed. A digital orthophoto map of the Upper 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. Due to budget and time constraints Stream Corridor Assessment surveys on the Prince George's portion of the watershed was limited to 60 miles of streams. Figure 4 shows the areas in the Prince George's portion of the Upper Patuxent Watershed where the SCA survey was done. The watershed was broken into Northern and Southern areas. The southern area contains all the streams surveyed for this report.

As mentioned earlier the Maryland Department of Natural Resources is working with Anne Arundel and Prince George's Counties to develop a Watershed Restoration Action Strategy (WRAS) of the Upper Patuxent River Watershed. As part of this process, data collected during the SCA survey will be used to help define present environmental conditions, as well as possible restoration opportunities in the watershed. This information combined with the watershed characterization, synoptic water quality survey and other local knowledge of the watershed, will be used to develop and Action Strategy for the Upper Patuxent 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.

Upper Patuxent Watershed Anne Arundel and Prince George's Counties, Maryland

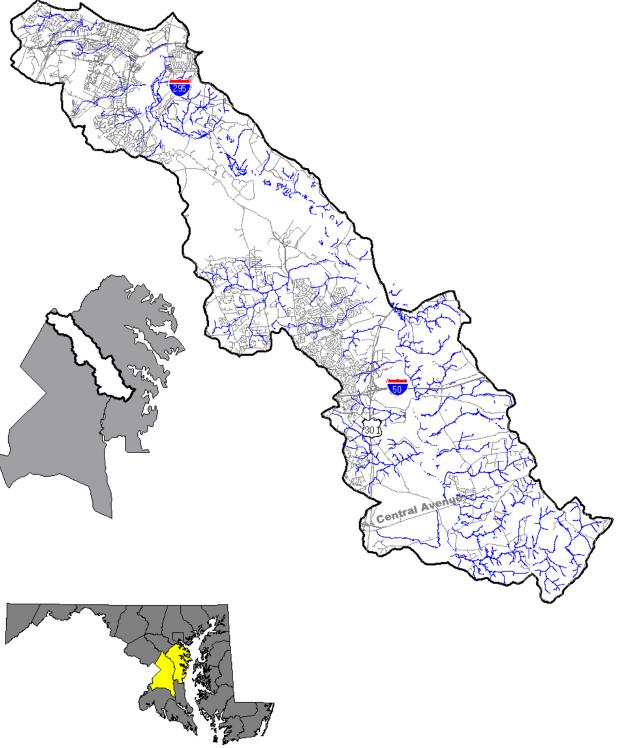


Figure 1: Map showing location of the Upper patuxent Watershed



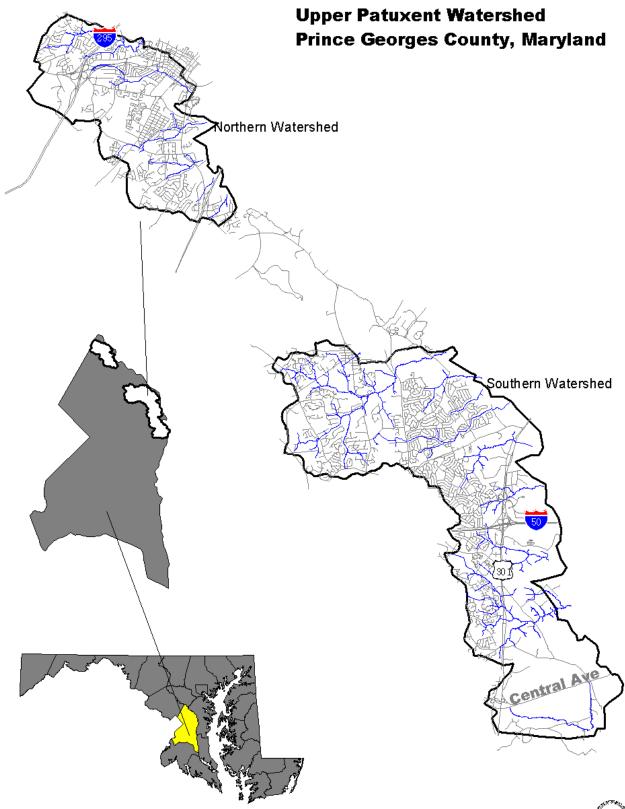
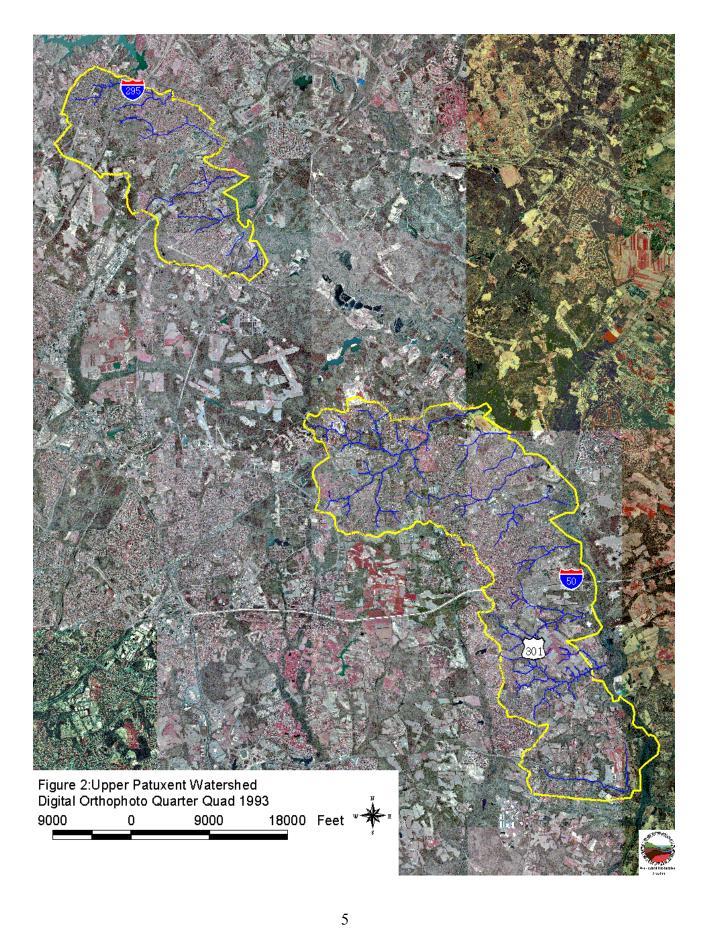
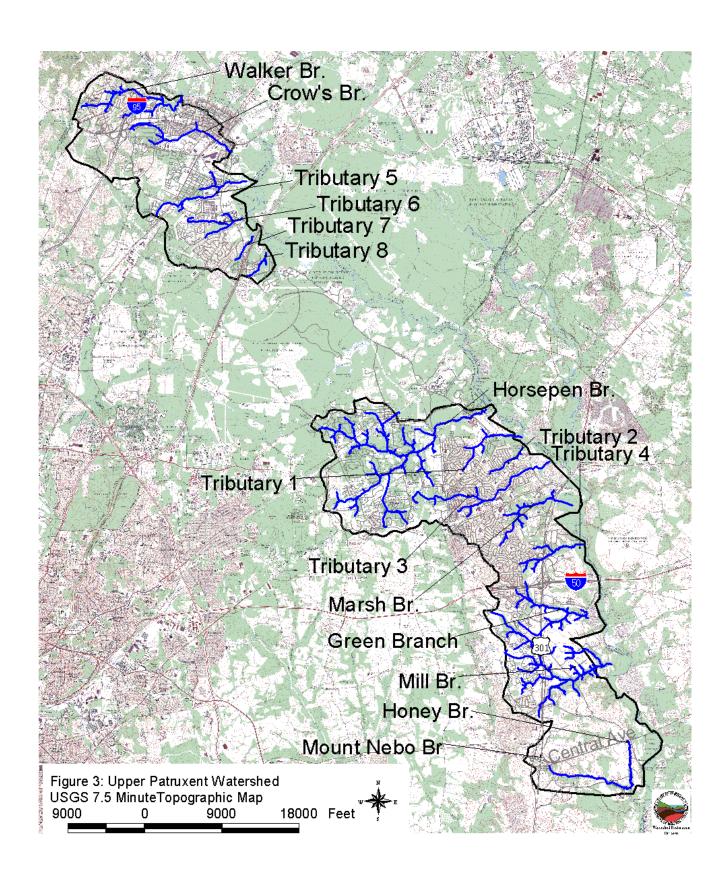
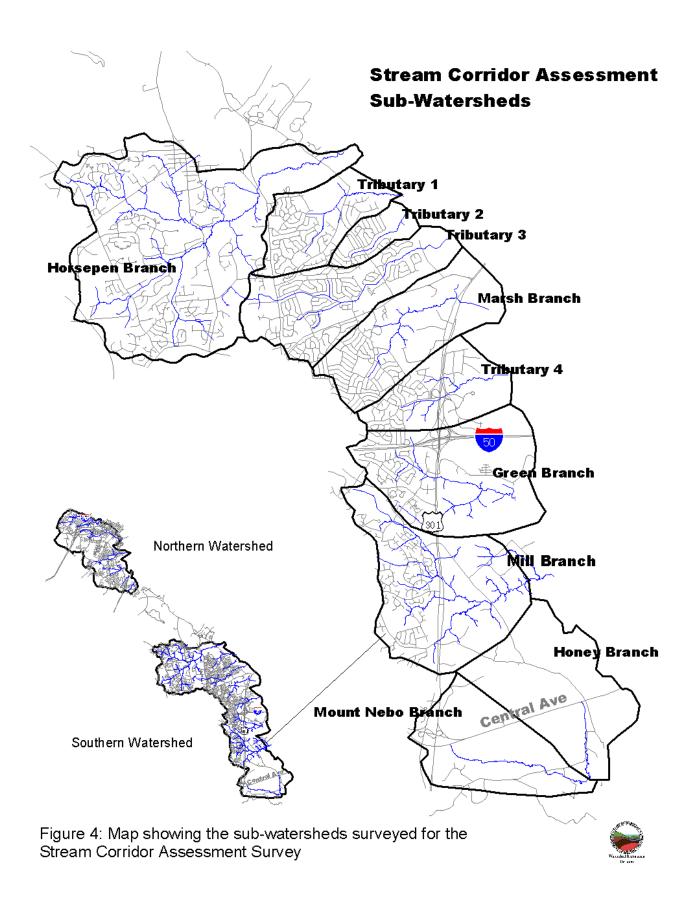


Figure 1a: Map showning the location of the Prince George's Area of the Upper Patuxent Watershed







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 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 one need a degree in sanitary engineering to see that a sewage pipeline has been exposed by stream bank erosion and is 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 National 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 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 Upper Patuxent SCA Survey, the members of the MCC's Chesapeake Bay Crew received several days of training. As part of this training, crewmembers 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. 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 help 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). A copy of the survey protocols can found on DNR's web site at http://www.dnr.state.md.us/streams/pubs/other.html. Copies of the protocols can also be obtained by contacting the Watershed Restoration Division of the Maryland Department of

Natural Resources in Annapolis, MD.

Several weeks prior to the beginning of the survey, letters were sent out to individual that own land along the stream. The letter was used to inform property owners that the survey was being done and gave them a phone number to call if they did not want MCC crews surveying the stream on their property. In addition, survey crews were instructed not to cross fence lines or enter any areas that are marked "No Trespassing" unless they have specific permission from the property owner.

Field surveys of the Upper Patuxent River Watershed began in November 2002 and over the next several months the survey teams walked much of the area's drainage network collecting information on potential environmental problems. Potential environmental problems commonly identified during the SCA Survey include: channelized stream sections, inadequate stream buffers, fish migration blockages, excessive bank erosion, near stream construction, trash dumping sites, unusual conditions, and pipe outfalls. In addition, the survey records information on the location of potential wetlands creation sites and collects data on the general condition of in-stream and riparian habitats.

It is not unusual for an SCA survey to identify large number of problems in each problem 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 was reported 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 that the erosion problems at many sites were fairly minor. 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 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 other 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 <u>very severe rating</u> 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 1000 feet) or a long section of stream (greater than 1000 feet) 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.
- * 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 a day or two 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 <u>moderate correctability rating</u> 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 <u>very difficult correctability rating</u> 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 access to the site could be obtained if requested from the property owner.

- * A <u>very easy accessibility rating</u> 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.
- * A <u>moderate accessibility rating</u> 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 <u>very difficult accessibility rating</u> of 5 is assigned to sites that are difficult to reach both on foot and by a vehicle. Examples would include a site 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, 231 photographs were taken during the survey were labeled and organized by site number in a binder so they can be easily worked with. The photographs were also digitized using a flat bed scanner and placed on a photo CD so they can be distributed to interested parties. Finally, all data collected during the survey was incorporated into an ArcView Geographical Information System (GIS). A final copy of the ArcView files were given to Prince George's County for their use in developing a Watershed Action Strategy for the Upper Patuxent Watershed.

RESULTS

A total of 630 problem data sheets, and 68 representative data sheets, were filled out during the survey. Included in the problem data sheets were 197 pipe outfalls, 145 fish migration barriers, 85 erosion sites, 72 sites with inadequately vegetated stream buffers, 41 unusual condition sites, 31 channel alteration sites, 31 trash dumping sites, 26 exposed pipes and 2 in/near stream construction sites. Seventeen comment data sheets were also completed during the survey to provide additional information about specific problems.

An overall summary of survey results is presented in Table 1, while Table 2 summarizes the data by major stream segments. All data collected during the survey is presented in Appendices A and B. Appendix A provides a listing of information by problem number along with its location, using Maryland State Plane northing and easting coordinates. The coordinates are meters. 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 B 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 Upper Patuxent River SCA Survey.

| Potential Problems Identified | Number | Estimated Length | Very Severe | Severe | Moderate | Low Severity | Minor |
|-------------------------------|--------|--------------------------|-------------|--------|----------|--------------|-------|
| Pipe Outfalls | 197 | NA | 1 | 9 | 104 | 8 | 75 |
| Fish Barriers | 145 | NA | - | 1 | 16 | 24 | 104 |
| Erosion Site | 85 | 101,985feet (19.3 miles) | 13 | 9 | 40 | 17 | 6 |
| Inadequate Buffers | 72 | 68,700feet (13 miles) | 3 | 5 | 20 | 28 | 16 |
| Unusual Conditions | 41 | NA | 1 | 1 | 21 | 10 | 8 |
| Channel Alterations | 31 | 7,850 feet (1.5 miles) | - | 1 | 1 | 7 | 22 |
| Trash Dumping | 31 | NA | - | - | 14 | 8 | 9 |
| Exposed Pipes | 26 | 137.5 feet | - | 2 | 6 | 7 | 11 |
| In/Near Stream Construction | 2 | NA | - | - | 1 | - | 1 |
| TOTAL | 630 | | 18 | 28 | 223 | 109 | 252 |
| Comments | 17 | | | | | | |
| Representative Sites | 68 | | | | | | |

Table 2. Summary of survey results by major stream segments

| Stream Segment | Channel Alteration | Construction | Erosion | Exposed Pipes | Fish Barrier | Inadequate Buffer | Pipe Outfall | Representative Sites | Trash Dumping | Unusual Conditions | Total |
|-------------------|--------------------|--------------|---------|---------------|--------------|-------------------|--------------|----------------------|---------------|--------------------|-------|
| Green Branch | 4 | | 7 | 6 | 19 | 8 | 20 | 10 | 2 | 5 | 81 |
| Honey Branch | | | 4 | | 3 | 1 | | 2 | 1 | | 11 |
| Horsepen Branch | 11 | 1 | 25 | 10 | 54 | 24 | 57 | 21 | 10 | 13 | 226 |
| Marsh Branch | 2 | | 7 | | 7 | 2 | 13 | 2 | 1 | | 34 |
| Mill Branch | 7 | | 17 | 2 | 20 | 12 | 19 | 9 | 7 | 13 | 106 |
| Mount Nebo Branch | | 1 | 11 | | 8 | 11 | 5 | 6 | 3 | 2 | 47 |
| Tributary 1 | 2 | | 5 | 2 | 7 | 4 | 11 | 3 | 6 | 3 | 43 |
| Tributary 2 | 1 | | | 1 | 1 | 1 | 18 | 1 | | 2 | 25 |
| Tributary 3 | 1 | | 4 | 4 | 9 | 7 | 49 | 12 | 1 | | 87 |
| Tributary 4 | 3 | | 5 | 1 | 17 | 2 | 5 | 2 | | 3 | 38 |

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 197 pipe outfalls were identified during the survey. The locations of pipe outfalls in the southern watersheds are shown in Figure 5c,d,e,f. Most of the pipe outfalls are located in the more urbanized portion of the watershed.

Fifty-eight percent or 114 of the 197 outfall pipes observed during the survey were found to have some type of discharge coming out of them. Of these, only one outfall was given a very severe rating. At site UP872401 the discharge was reported to be brown with a sewage odor. Four other sites were reported as having a sewage odor and one site was recorded as having a gasoline odor (Appendix B). The field crews reported the sites to local officials for follow-up action. The field crews did not participate in any follow up actions that were taken to determine the source of the color and/or odor coming from the pipes. Most of the remaining discharges were recorded as clear with no odor. There weren't any estimates of the amount of fluid coming from the pipes.

Figure 5b shows the frequency of the severity rating given to pipe outfalls during the survey. As can be seen from the graph, most of the pipe outfalls were given either a moderate to minor severity rating.

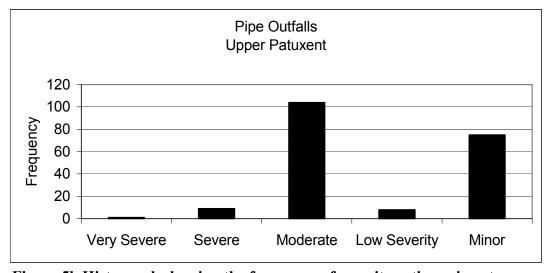
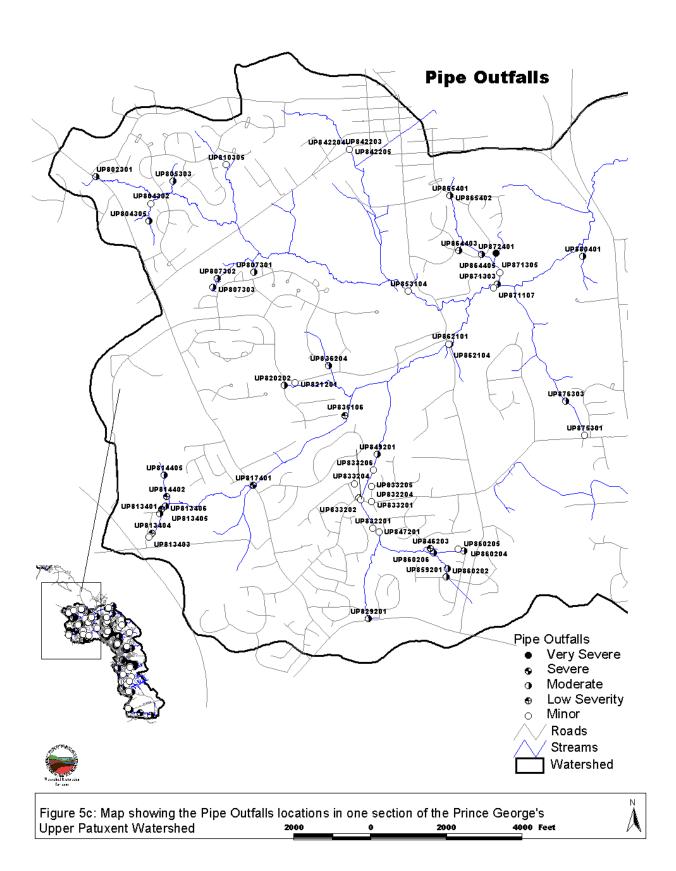
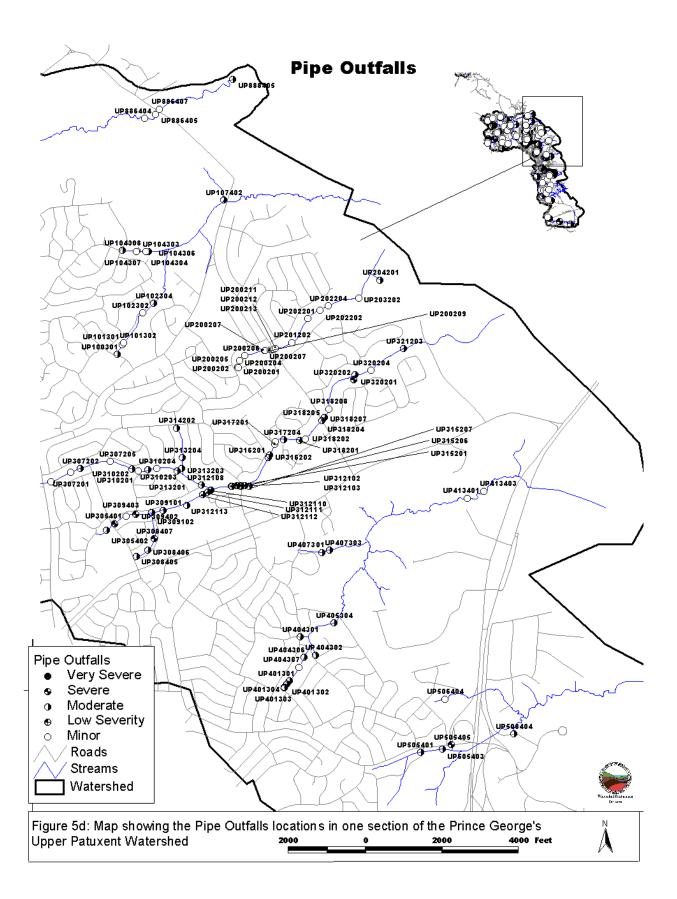
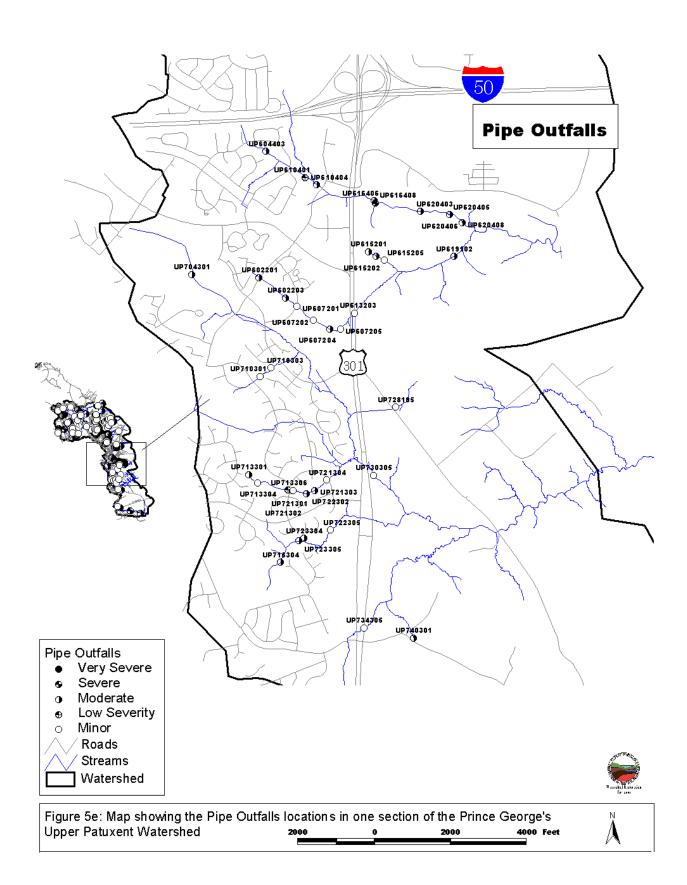
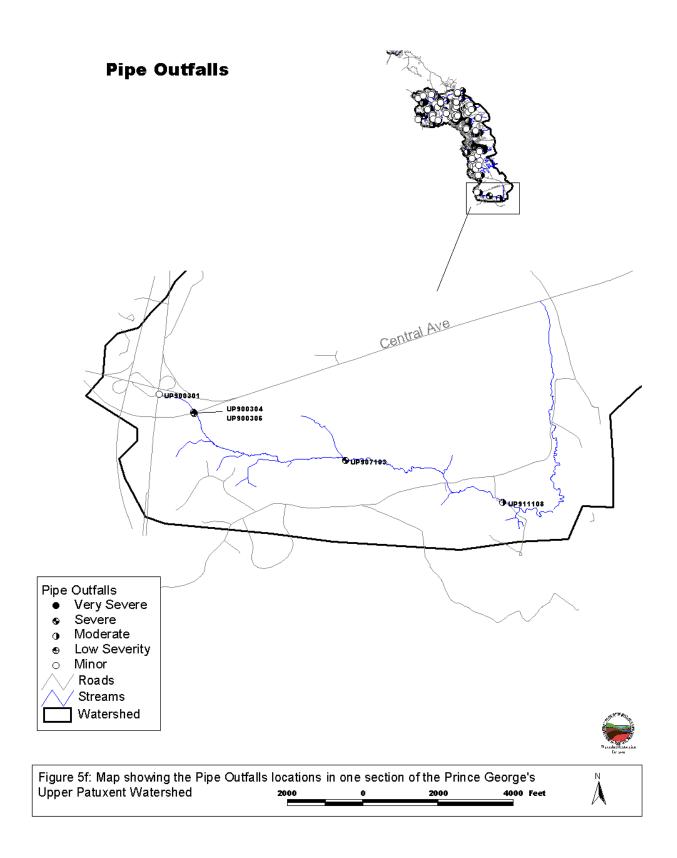


Figure 5b Histograph showing the frequency of severity ratings given to pipe outfall sites during Upper Patuxent River SCA survey.









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.

One hundred and forty-five fish migration barriers were reported during the survey. The locations of fish migration blockages are shown in Figure 6. The blockages were due to a number of reasons including road crossings (22), small dams (14), channelized stream sections (9), instream ponds (3), beaver dams (11), debris dams (67) and natural falls (13).

A number of anadromous fish including, alewife, river herring, yellow perch, white perch, American shad and hickory shad spawn in the Upper Patuxent River Watershed. One site received a severe rating. Site UP624101 is at a road crossing. This site totally blocks Green Branch from the Patuxent River. Several miles upstream this tributary is blocked at Route 301.

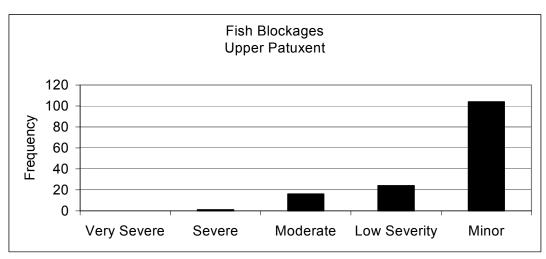
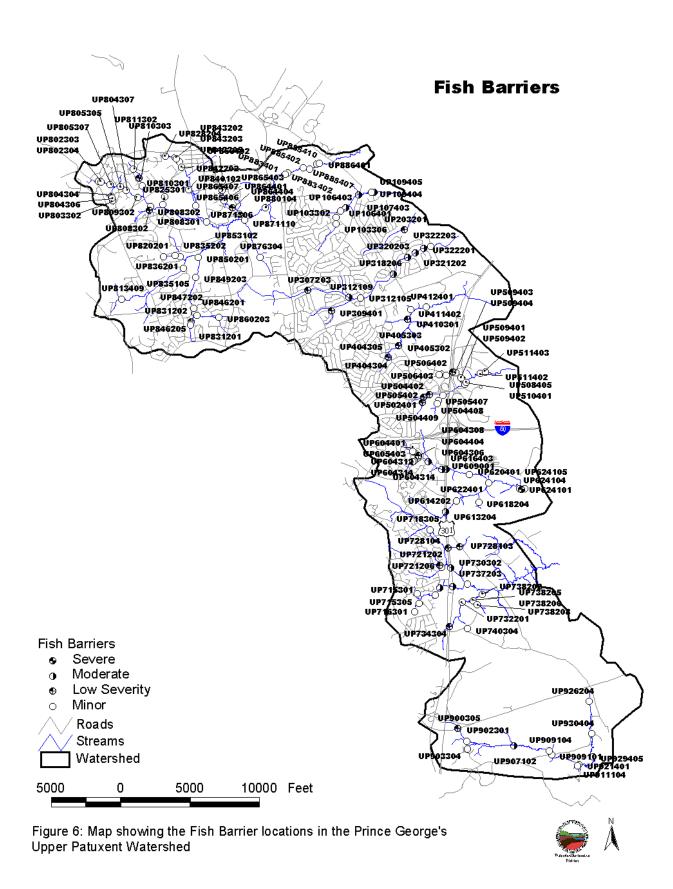


Figure 8b Histograph showing the frequency of severity ratings given to fish blockage sites during Upper Patuxent River SCA survey.



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 Upper Patuxent watershed, 23.8% of the landscape surface is impervious (Conn, personal communication). 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 85 sites during the survey (Figure 7). 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 10 feet in some areas, to other areas where up to 6,200 feet of stream was found to have an erosion problem (Appendix B). Overall, results indicate approximately 19.3 miles of unstable eroding banks in the Upper Patuxent watershed. Figure 7b shows the frequency of the severity rating given to erosion sites. Thirteen sites received a very severe rating. These sites had high banks over long distances.

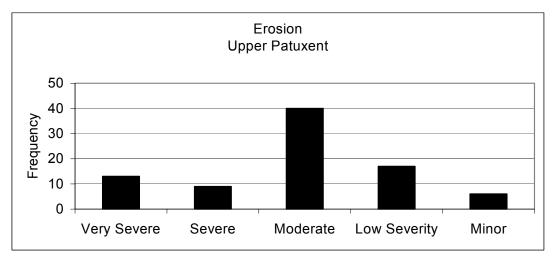


Figure 5b Histograph showing the frequency of severity ratings given to erosion sites during Upper Patuxent River SCA survey.

Erosion Sites



25

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 wherever it is practical.

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 72 sites during the survey as shown in Figure 8. The field crew provided a rough estimate of the length of the inadequate stream buffer at all sites (Appendix B). Based on the data that was collected, there is approximately 68,700 feet (13 miles) of inadequate buffer in the areas where the survey was done. Field teams found inadequate buffers ranging in distance from 20 feet to 3,400 feet. This survey was done in a mostly urban area, with lawn, and shrubs and small trees reported as the dominant adjacent land use at inadequate buffer sites, accompanied by a moderate amount of paved areas. Most sites received a moderate to minor severity rating (Figure 8b). This would indicate that in these stream reaches the inadequate buffers were not very long or some trees were already present at many of the sites.

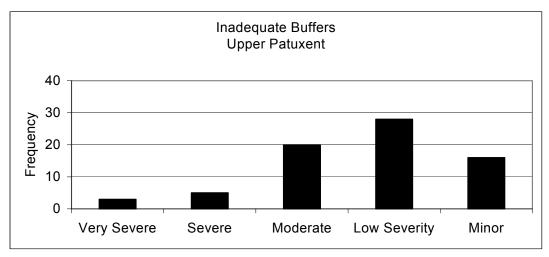
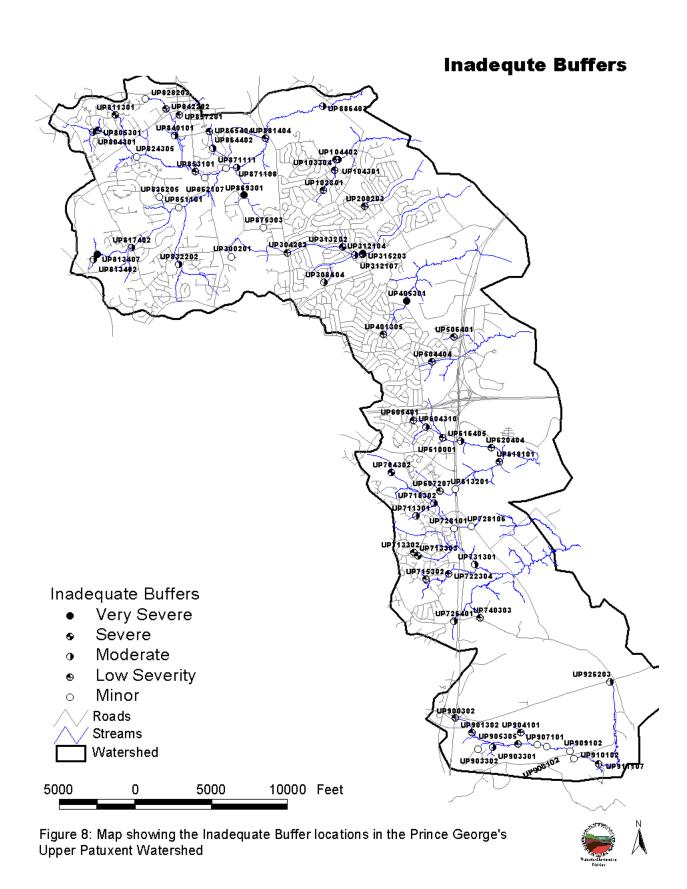


Figure 8b Histograph showing the frequency of severity ratings given to inadequate buffer sites during Upper Patuxent River SCA survey



Unusual Conditions

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. Forty-one unusual condition sites were found during the Upper Patuxent survey (Figure 9). Only one site received a very severe rating. At site UP103301 sewage was leaking from top of manhole into water, which is murky, gray, and had strong odor. One site received a severe rating. At site UP907102, the stream is blue-gray for a few hundred feet. At two sites, UP730303 and 724306, the walls around the culverts are reported as cracked and failing. Both of these sites received moderate ratings. At six sites the streams had been piped underground. There were four sites that had water clarity/odor issues. A majority of the unusual condition sites were where a red precipitate or "red flock" was observed in the water. Red flock can occur naturally and is an indication of elevated iron levels in the water. This is not unusual in Maryland coastal plain streams. These sites were give lower severity ratings (Figure 9b).

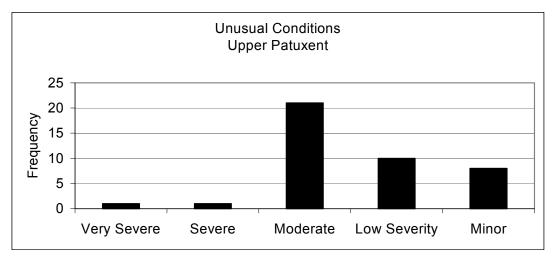
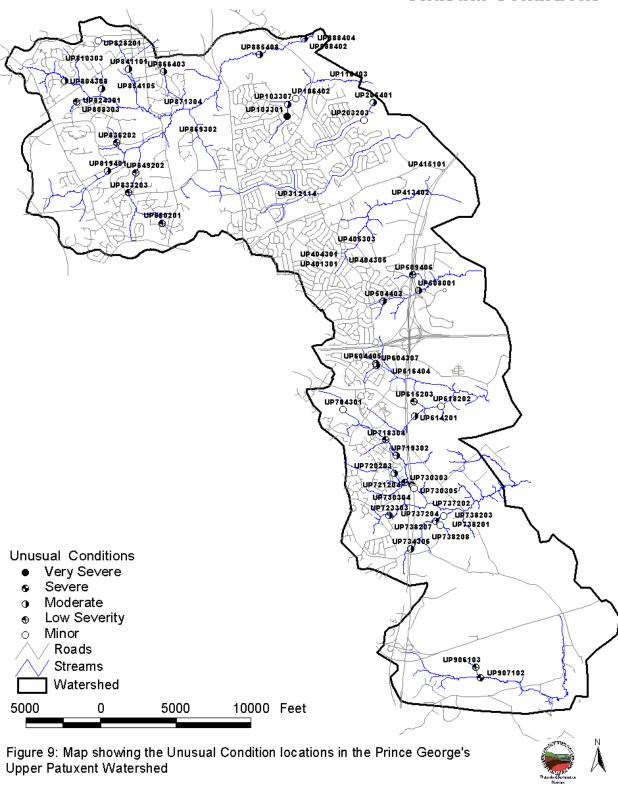


Figure 11b Histograph showing the frequency of severity ratings given to unusual condition sites during Upper Patuxent River SCA survey.

Unusual Conditions



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 31 areas and their locations are shown in Figure 10. The total length of stream affected by channelization was estimated to be 7,850 feet or about 1.5 miles. Only one site received a severe rating. At site UP810304 the stream was in a concrete channel. The rest of the sites were given a moderate to minor severity rating (Figure 10b). Four sites were lined with concrete, two stream banks were lined with concrete blocks, five sites were earth channels, sixteen sites were lined with rip-rap, one with gabion, one with stone blocks, and one was place in a metal pipe.

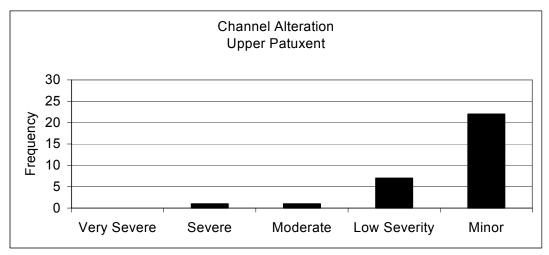
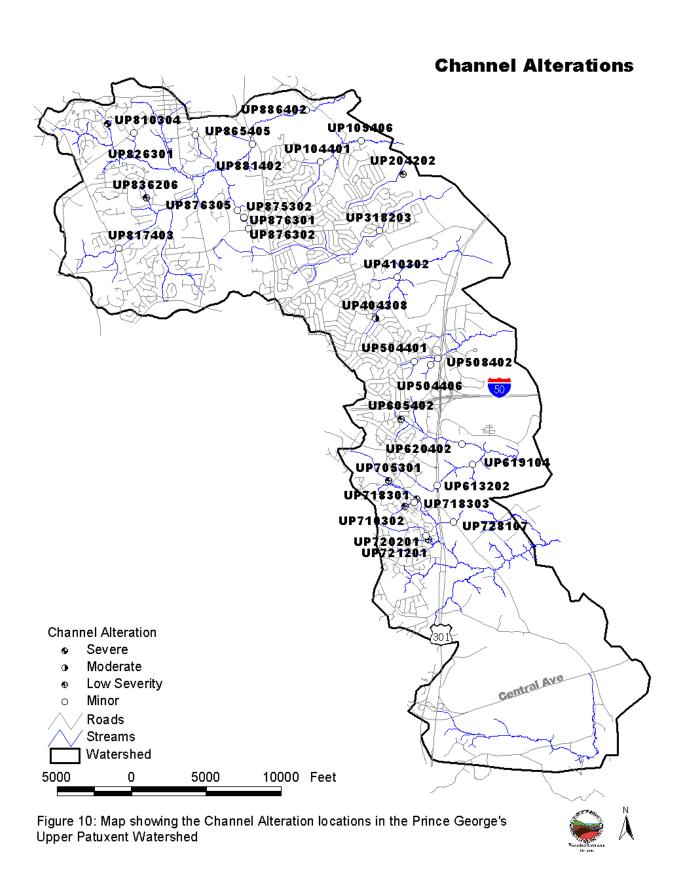


Figure 10b Histograph showing the frequency of severity ratings given to channel alteration sites during Upper Patuxent River SCA survey.



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 31 sites where there was excessive trash and their locations are shown in Figure 11. All the sites were given severity ratings ranging from moderate to minor (Figure 11b). The sites had a wide range of the types of trash. They were construction (1), floatables (3), industrial (1), lumber (1), mixed (8), machinery (1), residential (9), and yard waste (6).

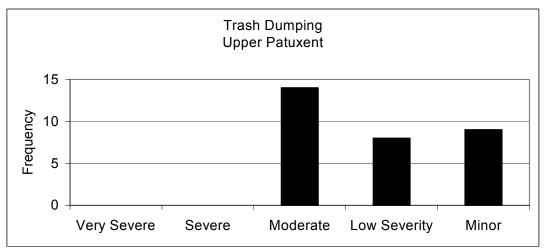
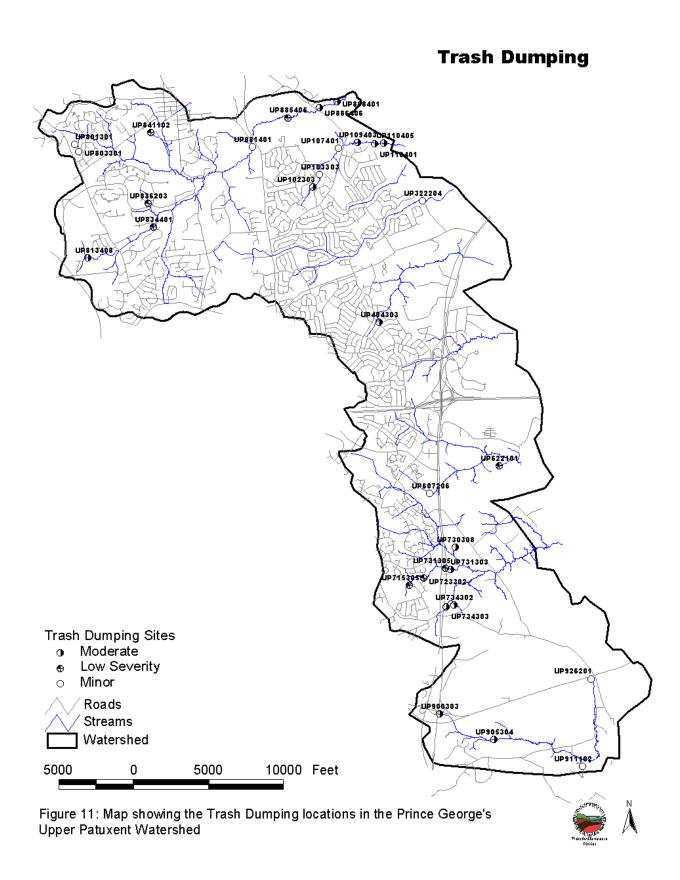


Figure 11b Histograph showing the frequency of severity ratings given to trash dumping sites during Upper Patuxent River SCA survey.



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 twenty-six sites during the survey. Locations of these sites are shown in Figure 12. Three pipes were reported to be discharging at the time of the survey. The discharge at Site UP814401 was reported to be clear with no odor. At site UP885409 the discharge was reported as clear but with a sewage odor. The third site, UP620407, was reported as having a soapy discharge. Most of the sites received low and minor severity ratings. The exposed pipe photos should be reviewed by public works officials and follow-up visits should be done based on their evaluations.

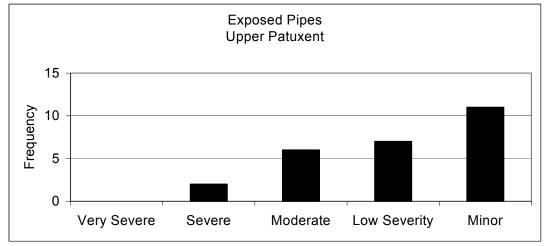
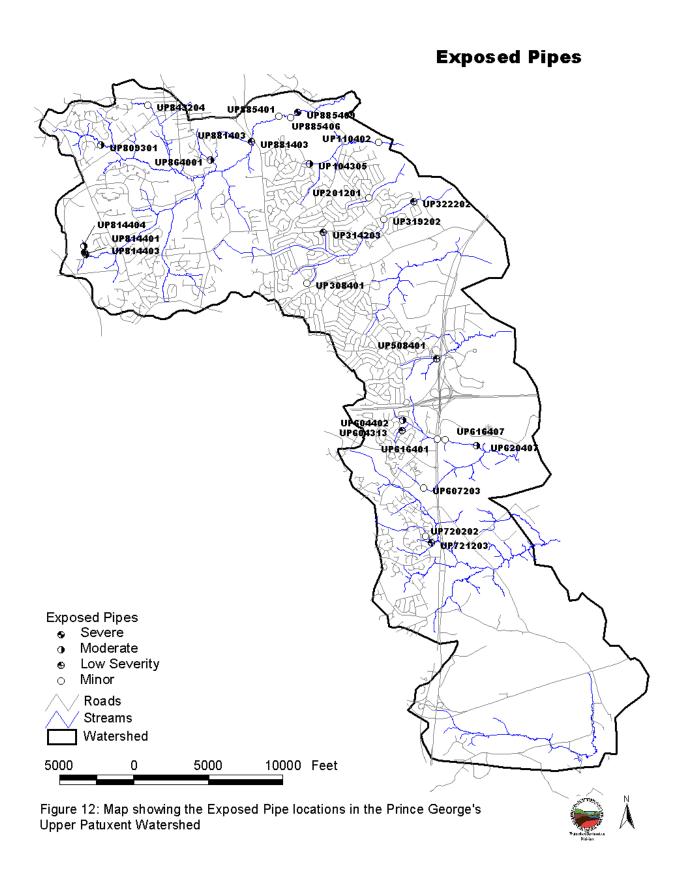


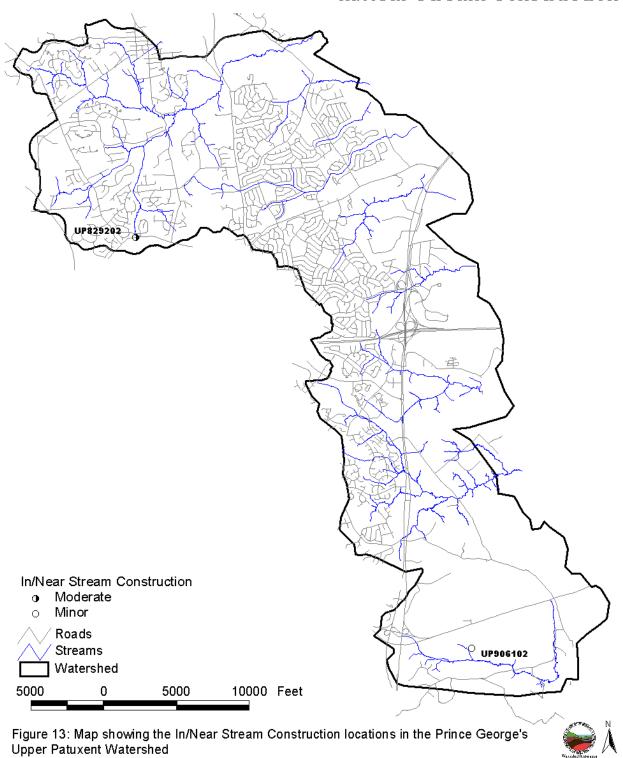
Figure 12b Histograph showing the frequency of severity ratings given to exposed pipes sites during Upper Patuxent River SCA survey.



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 reported at two sites during the survey (Figure 13). Site UP829202 was given a moderate severity ranking. The sediment control was reported as inadequate and there was excessive sediment in the stream. The other site was given a minor rating.

In/Near Stream Construction



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

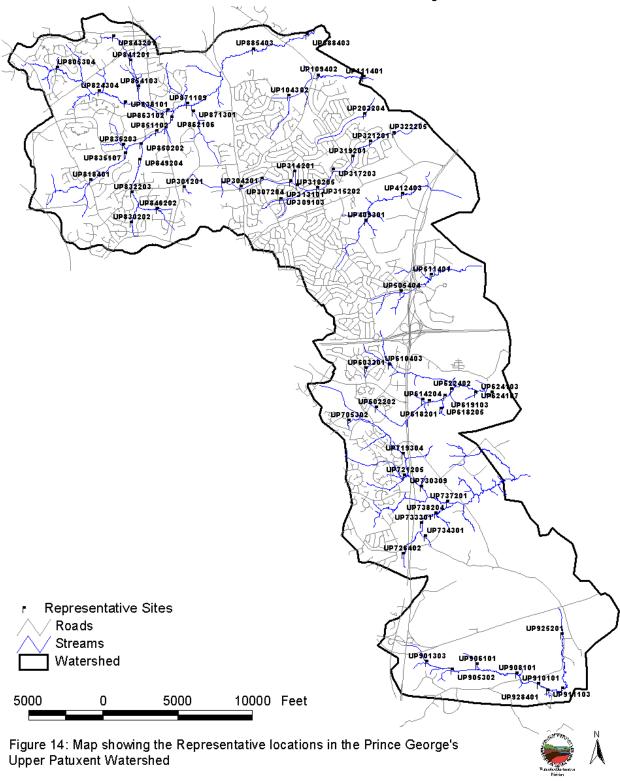
- * Embeddedness
- * Channel Alteration
- * Stream Velocity and Depth
- * Bank Vegetation Protection
- * Riparian Vegetative Zone Width

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.

Sixty-eight 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 B.

Results indicate that the tributaries to the Upper Patuxent are fairly impacted. Most of the tributaries flow through the city of Bowie, a highly urbanized sections of the watershed. They 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 mostly given marginal ratings. This indicates that erosion is a problem in the watershed. This is not surprising considering the large amount of impervious surface present in the watershed. Even the tributaries Mount Nebo Branch and Honey Branch, which are south of the city, are somewhat impacted. The tributaries showed similar ratings in riparian vegetation and shelter for fish. They received optimal to suboptimal ratings for most tributaries in riparian vegetation and suboptimal to marginal for shelter for fish.

Representative Sites



DISCUSSION

One of the main objectives of the Upper 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 completed in the winter of 2002 and approximately 60 miles of stream were walked. During the survey, 630 potential environmental problems were identified. The most common environmental concern seen during the SCA survey was pipe outfalls, which was reported at 197 sites. Other potential environmental problems recorded during the survey include: 145 fish migration barriers, 85 erosion sites, 72 sites with inadequately vegetated stream buffers, 41 unusual condition sites, 31 channel alteration sites, 31 trash dumping sites, 26 exposed pipes and 2 in/near stream construction sites.

Results of the Stream Corridor Assessment survey indicate a variety of environmental problems in the Upper Patuxent River Watershed. It is anticipated that results from this survey will be combined with other information about the area, which will help Prince George's County to establish priorities for the types and location of restoration projects that will be pursued in the Upper Patuxent River Watershed in the future.

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 Prince George's County to develop a Watershed Restoration Action Strategy (WRAS) for the Prince George's County portion of the Upper 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 Upper Patuxent River Watershed.

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 Upper 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.

REFERENCES

EPA, 1992. Streamwalk Manual. Water Division Region 10, Seattle WA. EPA 910/9-92-004.

Hosmer, A.W. 1988. MaryPIRG'S streamwalk manual. Univ. of Maryland, College Park.

Kazyak, P. F. 1996. Maryland biological stream survey sampling manual. Maryland Department of Natural Resources, Annapolis, MD.

Maryland Clean Water Action Plan. 1998. Maryland Department of Natural Resources, Annapolis. MD. Web address is http://dnr.state.md.us/cwap/index.html

Maryland Save Our Streams (SOS). 1970. Conducting a stream survey. Maryland Department of Natural Resource's Adopt-A-Stream Program. Annapolis, MD.

National Resources Conservation Service (NRCS). 1998. Stream visual assessment protocols. National Water and Climate Center Technical Note 99-1.

Plafken, J., M. T. Barbour, K. D. Porter, S. K. Gross and R. M. Hughes. 1989. Rapid bioassessment protocols for use in streams and rivers. U.S. Environmental Protection Agency (EPA), Office of Water, EPA/440/4-89-001.

Riley, A. L., 1998. Restoring Streams in Cities. Island Press. Washington, DC.

Roth, N. E., M. T. Southerland, G. Mercurio, J. C. Chaillou, P.F. Kazyak, S. S. Stranko, A. P. Prochaska, D. G. Heimbuch, and J. C. Seibel. 1999. State of the Streams: 1995-1997 Maryland Biological Stream Survey Results. Maryland Department of Natural Resources, Annapolis. MD.

Watershed Profiles- Upper Patuxent River, 2002. Maryland Department of Natural Resources, Annapolis MD. Web address is http://mddnr.chesapeakebay.net/wsprofiles/surf/prof/prof.html

Yetman, K.T. Stream corridor assessment survey – survey protocols. Maryland Department of Natural Resources, Annapolis. MD.

Yetman, K. T., D. Bailey, C. Buckley, P. Sneeringer, M. Colosimo, L. Morrison and J. Bailey. 1996. Swan Creek watershed assessment and restoration. Proceedings Watershed '96. June 8-12, 1996 Baltimore, MD. Prepared by Tetra Tech Inc. under contract

Appendix A

Listing of sites by site number

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|--------|--------------|--------------|-------------|
| UP100301 | Pipe Outfall | 3 | 3 | 1 | 147037.93610 | 421681.51551 | |
| UP101301 | Pipe Outfall | 5 | 1 | 2 | 147114.90790 | 421722.60572 | · |
| | Pipe Outfall | 5 | 1 | 2 | 147127.06135 | 421734.75917 | · |
| - | Inadequate Buffer | 4 | 3 | 1 | 147257.27680 | 421831.40797 | · |
| - | Pipe Outfall | 5 | 1 | 1 | 147365.50030 | 421887.54529 | · |
| | Trash Dumping | 3 | 2 | 3 | 147403.69684 | 421931.52918 | · |
| UP102304 | | 3 | 3 | 2 | 147441.89337 | 421970.30445 | · |
| UP103301 | Unusual Condition | 1 | 4 | 2 | 147555.90423 | 422060.58716 | · |
| | Fish Barrier | 5 | 1 | 2 | 147617.25017 | 422058.27222 | Tributary 1 |
| UP103303 | Trash Dumping | 5 | 1 | 2 | 147660.65532 | 422058.85095 | Tributary 1 |
| | Inadequate Buffer | 4 | 2 | 2 | 147667.02141 | 422059.42969 | Tributary 1 |
| UP103305 | · | 4 | 3 | 2 | 147673.38750 | 422059.42969 | Tributary 1 |
| UP103306 | Fish Barrier | 5 | 2 | 2 | 147765.98516 | 422062.90210 | Tributary 1 |
| UP103307 | Unusual Condition | 3 | 4 | 3 | 147809.96904 | 422072.74060 | Tributary 1 |
| UP104301 | Inadequate Buffer | 4 | 2 | 2 | 147873.05119 | 422079.68543 | Tributary 1 |
| UP104302 | Representative Site | | | | 147870.15752 | 422073.89807 | Tributary 1 |
| UP104303 | Pipe Outfall | 3 | 3 | 2 | 147853.95293 | 421933.26539 | Tributary 1 |
| UP104304 | Pipe Outfall | 5 | 1 | 2 | 147853.95293 | 421908.95850 | Tributary 1 |
| UP104305 | Exposed Pipe | 3 | 4 | 2 | 147857.42534 | 421873.65565 | Tributary 1 |
| UP104306 | Pipe Outfall | 5 | 1 | 2 | 147858.00407 | 421840.66773 | Tributary 1 |
| UP104307 | Pipe Outfall | 5 | 1 | 2 | 147857.42534 | 421832.56544 | Tributary 1 |
| UP104308 | Pipe Outfall | 3 | 3 | 1 | 147862.63396 | 421725.49940 | Tributary 1 |
| UP104401 | Channel Alteration | 5 | 1 | 1 | 147877.68107 | 422099.36243 | Tributary 1 |
| UP104402 | Inadequate Buffer | 3 | 1 | 1 | 147879.41728 | 422113.83081 | Tributary 1 |
| UP106401 | Fish Barrier | 5 | 2 | 1 | 147895.04313 | 422154.34228 | Tributary 1 |
| UP106402 | Unusual Condition | 5 | 2 | 1 | 147927.45231 | 422241.15258 | Tributary 1 |
| UP106403 | Fish Barrier | 3 | 3 | 2 | 147961.01896 | 422278.19164 | Tributary 1 |
| UP106404 | Erosion | 3 | 3 | 1 | 148069.24247 | 422371.36803 | Tributary 1 |
| UP107401 | Trash Dumping | 5 | 2 | 2 | 148188.46195 | 422441.39501 | Tributary 1 |
| UP107402 | Pipe Outfall | 3 | 3 | 1 | 148266.01248 | 422530.52025 | Tributary 1 |
| UP107403 | Fish Barrier | 3 | 3 | 2 | 148252.12284 | 422551.93346 | Tributary 1 |
| UP109401 | Erosion | 1 | 2 | 3 | 148252.12284 | 422617.33055 | Tributary 1 |
| UP109402 | Representative Site | | | | 148290.31937 | 422662.47191 | Tributary 1 |
| UP109403 | Trash Dumping | 3 | 2 | 2 | 148309.41763 | 422819.30918 | Tributary 1 |
| UP109404 | Fish Barrier | 5 | 2 | 1 | 148307.10269 | 422838.98618 | Tributary 1 |
| UP109405 | Fish Barrier | 3 | 3 | 1 | 148304.20902 | 422902.64707 | Tributary 1 |
| UP109406 | Channel Alteration | 5 | 3 | 2 | 148303.05155 | 422910.17063 | Tributary 1 |
| UP110401 | Trash Dumping | 3 | 2 | 2 | 148283.95328 | 423165.97165 | Tributary 1 |
| UP110402 | Exposed Pipe | 5 | 3 | 3 | 148293.50241 | 423281.42935 | Tributary 1 |
| UP110403 | Comment | | | | 148293.21305 | 423286.92733 | Tributary 1 |
| UP110404 | Erosion | 4 | 2 | 3 | 148283.95328 | 423330.91122 | Tributary 1 |
| UP110405 | Trash Dumping | 3 | 2 | 3 | 148293.79178 | 423350.58822 | Tributary 1 |
| UP110406 | Erosion | 3 | 3 | 2 | 148279.90213 | 423446.07955 | · · |
| UP111401 | Representative Site | | | | 148255.01651 | 423594.81453 | Tributary 1 |
| UP200201 | Pipe Outfall | 5 | 1 | 2 | 146932.02754 | 422645.10985 | Tributary 2 |
| UP200202 | Pipe Outfall | 3 | 3 | 2 | 146935.49995 | 422644.53111 | Tributary 2 |
| UP200203 | Inadequate Buffer | 4 | 5 | 2 | 146941.86604 | 422646.84605 | Tributary 2 |
| UP200204 | Pipe Outfall | 5 | 1 | 2 | 146985.27119 | 422657.84202 | |
| UP200205 | Pipe Outfall | 5 | 1 | 2 | 146985.84992 | 422655.52708 | |
| UP200206 | Pipe Outfall | 5 | 1 | 2 | 147026.94013 | 422700.66844 | Tributary 2 |

| UP2002021 Pipe Outfall | Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|--|----------|---------------------|----------|----------------|--------|--------------|--------------|---------------------------------------|
| UP200209 Pipe Outfall | | | | · | | | | |
| UP2002090 Pipe Outfall 5 | | • | | | | | | , |
| UP200211 Pipe Outfall | - | | | 1 | 2 | | | • |
| UP2002211 Pipe Outfall 5 | | • | 5 | 1 | 2 | | | , |
| UP200212 Pipe Outfall | | 1 | 5 | 1 | | | | , |
| UP200213 Pipe Outfall 5 | | • | | | | | | · · |
| UP201201 Exposed Pipe 5 | | • | 5 | 1 | 1 | | | · |
| UP201202 Pipe Outfall 5 | | ' | | 1 | 2 | | | · |
| UP202201 Pipe Outfall 5 | | ' | 5 | 1 | 2 | | | · · |
| UP202202 Pipe Outfall | UP202201 | • | 5 | 1 | 3 | 147320.93768 | | · · · · · · · · · · · · · · · · · · · |
| UP202204 Pipe Outfall 5 | | • | 5 | 1 | 3 | 147386.91351 | | · |
| UP203201 Fish Barrier | | ' | 5 | 1 | 2 | | | · |
| UP203202 | | | 4 | 4 | 3 | | | · |
| UP203203 | | | 5 | 1 | 3 | | | · |
| UP203204 Representative Site | | | 5 | 3 | 3 | | | · |
| UP204201 Pipe Outfall 3 | | | | | | | | · · |
| UP204202 Channel Alteration 4 5 1 147631.71856 423766.12019 Tributary 2 UP2054011 unusual condition 3 5 2 147838.90581 423785.21846 Tributary 2 UP304201 Representative Site 146007.40138 419944.15204 Tributary 3 UP304201 Representative Site 146007.50368 421099.30777 Tributary 3 UP304202 Inadequate Buffer 4 3 2 146018.39736 421116.66983 Tributary 3 UP304203 Pipe Outfall 5 1 2 146024.76344 421156.02383 Tributary 3 UP304204 Pipe Outfall 3 3 2 146025.92092 421159.49624 Tributary 3 UP305401 Pipe Outfall 3 3 3 1 145640.48318 421594.70521 Tributary 3 UP305402 Pipe Outfall 3 3 3 1 145640.48318 421594.70521 Tributary 3 UP307201 Pipe Outfall 5 1 2 146100.57777 421309.38869 Tributary 3 UP307201 Pipe Outfall 5 1 2 146100.57777 421309.38869 Tributary 3 UP307201 Pipe Outfall 3 3 2 146133.56569 421386.93923 Tributary 3 UP307201 Pipe Outfall 3 3 2 146133.56569 421386.93923 Tributary 3 UP307202 Pipe Outfall 3 3 2 146182.17946 421386.93923 Tributary 3 UP307204 Representative Site 146182.17946 421531.04433 Tributary 3 UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85000 Tributary 3 UP308401 Exposed Pipe 5 1 145428.66605 421827.35682 Tributary 3 UP308401 Exposed Pipe 5 1 145428.86600 421827.35682 Tributary 3 UP308405 Pipe Outfall 3 3 1 145439.9809 421849.08900 Tributary 3 UP308406 Pipe Outfall 3 3 1 145481.90970 421934.58436 Tributary 3 UP308407 Pipe Outfall 3 3 1 14579.95666 421839.51026 Tributary 3 UP308406 Pipe Outfall 3 3 1 14579.95666 421839.51036 Tributary 3 UP309101 Pipe Outfall 3 3 1 14579.95666 421839.51036 Tributary 3 UP309101 Pipe Outfall 3 3 1 14579.95666 421839.51036 Tributary 3 UP309101 Pipe Outfall 3 3 1 14579.95666 421839.51037 Tributary 3 | | • | 3 | 3 | 1 | | | · · · · · · · · · · · · · · · · · · · |
| UP205401 Unusual condition 3 5 2 147838.90581 423785.21846 Tributary 2 UP300201 Inadequate Buffer 5 1 1 145938.53188 420000.28937 Tributary 3 UP301201 Representative Site 146007.40138 419944.15204 Tributary 3 UP304201 Inadequate Buffer 4 3 2 146015.50368 421099.3077 Tributary 3 UP304202 Inadequate Buffer 4 3 2 146015.50368 421099.3077 Tributary 3 UP304203 Pipe Outfall 5 1 2 146024.76344 421156.02383 Tributary 3 UP304204 Pipe Outfall 3 3 3 2 146025.92092 421159.49624 Tributary 3 UP305401 Pipe Outfall 2 4 2 145692.47368 421691.26356 Tributary 3 UP305401 Pipe Outfall 3 3 3 1 145640.48318 421594.70521 Tributary 3 UP307202 Pipe Outfall 5 1 2 146100.57777 421309.38689 Tributary 3 UP307202 Pipe Outfall 3 3 3 2 146133.56569 421386.93923 Tributary 3 UP307202 Pipe Outfall 3 3 3 2 146182.17946 421531.04433 Tributary 3 UP307204 Representative Site 146182.17946 421531.04433 Tributary 3 UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP307204 Exposed Pipe 5 1 1 145428.66605 42128.736682 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 42128.736682 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145430.98099 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145439.98099 421840.08900 Tributary 3 UP308406 Pipe Outfall 3 3 1 145498.2352 421840.08900 Tributary 3 UP308407 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP308401 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309401 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309401 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309401 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309401 Pipe Outfall 5 1 2 146139.358 | | • | 4 | 5 | 1 | 147631.71856 | | , |
| UP300201 Inadequate Buffer 5 | | | 3 | 5 | 2 | | | , |
| UP301201 Representative Site 146007.40138 419944.15204 Tributary 3 UP304202 Representative Site 146015.50368 421099.30777 Tributary 3 UP304202 Inadequate Buffer 4 3 2 146018.39736 421116.66983 Tributary 3 UP304204 Pipe Outfall 5 1 2 146024.76344 421156.02383 Tributary 3 UP304204 Pipe Outfall 3 3 2 146025.92092 421159.49624 Tributary 3 UP305401 Pipe Outfall 2 4 2 145692.47368 421661.26356 Tributary 3 UP305402 Pipe Outfall 3 3 1 145640.48318 421594.70521 Tributary 3 UP307201 Pipe Outfall 5 1 2 146100.57777 421309.38869 Tributary 3 UP307202 Pipe Outfall 3 3 2 146103.56569 421386.93923 Tributary 3 UP307202 Pipe Outfall 3 3 2 146133.56569 421386.93923 Tributary 3 UP307202 Pipe Outfall 3 3 1 146189.17946 421587.00241 Tributary 3 UP307202 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145439.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 1 145439.82352 421834.88038 Tributary 3 UP308407 Pipe Outfall 3 3 1 14549.82352 421834.88038 Tributary 3 UP308407 Pipe Outfall 3 3 1 145789.5311 421957.57227 Tributary 3 UP309402 Pipe Outfall 3 3 1 145789.5711 421961.62342 Tributary 3 UP309402 Pipe Outfall 3 3 1 145780.57278 421873.7870 Tributary 3 UP309402 Pipe Outfall 5 1 2 14678.570728 421873.7870 Tributary 3 UP309402 Pipe Outfall 5 1 2 146785.07278 421873.7870 Tributary 3 UP309402 Pipe Outfall 5 1 2 146785.07278 421873.7870 Tributary 3 UP309402 Pipe Outfall 5 1 2 146785.07278 421879.784132 Tributary 3 UP309 | UP300201 | | 5 | 1 | 1 | | | , |
| UP304201 Representative Site | UP301201 | | | | | | | • |
| UP304202 Inadequate Buffer | | Representative Site | | | | | | · · |
| UP304203 Pipe Outfall 5 | UP304202 | • | 4 | 3 | 2 | 146018.39736 | | · · |
| UP304204 Pipe Outfall 3 3 2 146025.92092 421159.49624 Tributary 3 UP305401 Pipe Outfall 2 4 2 145692.47368 421661.26356 Tributary 3 UP305402 Pipe Outfall 3 3 1 145640.48318 421594.70521 Tributary 3 UP307201 Pipe Outfall 5 1 2 146100.57777 421309.38869 Tributary 3 UP307202 Pipe Outfall 3 3 2 146133.56569 421458.70241 Tributary 3 UP307203 Fish Barrier 4 3 1 146159.03004 421458.70241 Tributary 3 UP307204 Representative Site | | ' | | 1 | 2 | | | , |
| UP305401 Pipe Outfall 2 | | - | 3 | 3 | 2 | | | |
| UP305402 Pipe Outfall 3 3 1 145640.48318 421594.70521 Tributary 3 UP307201 Pipe Outfall 5 1 2 146100.57777 421309.38869 Tributary 3 UP307202 Pipe Outfall 3 3 2 146133.56569 421386.93923 Tributary 3 UP307203 Fish Barrier 4 3 1 146159.03004 421458.70241 Tributary 3 UP307204 Representative Site 146182.17946 421531.04433 Tributary 3 UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 14549.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 | | | 2 | 4 | 2 | | | · |
| UP307201 Pipe Outfall 5 | UP305402 | • | 3 | 3 | 1 | 145640.48318 | | · |
| UP307202 Pipe Outfall 3 3 2 146133.56569 421386.93923 Tributary 3 UP307203 Fish Barrier 4 3 1 146159.03004 421458.70241 Tributary 3 UP307204 Representative Site 146182.17946 421531.04433 Tributary 3 UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145430.98099 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145429.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308407 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP309401 Pipe Outfall 3 3 <td></td> <td></td> <td>5</td> <td>1</td> <td>2</td> <td>146100.57777</td> <td></td> <td>•</td> | | | 5 | 1 | 2 | 146100.57777 | | • |
| UP307203 Fish Barrier 4 3 1 146159.03004 421458.70241 Tributary 3 UP307204 Representative Site 146182.17946 421531.04433 Tributary 3 UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145430.98099 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145429.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP309407 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP3099102 Pipe Outfall 3 3 | UP307202 | Pipe Outfall | 3 | 3 | 2 | 146133.56569 | | · · |
| UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145429.82352 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308407 Pipe Outfall 3 3 1 145799.05666 421924.58436 Tributary 3 UP309101 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309102 Pipe Outfall 3 3 1 145789.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 | UP307203 | Fish Barrier | 4 | 3 | 1 | 146159.03004 | | , |
| UP307205 Pipe Outfall 5 1 2 146188.54554 421628.85060 Tributary 3 UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145429.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308407 Pipe Outfall 3 3 1 145781.3688 421977.82801 Tributary 3 UP309101 Pipe Outfall 3 3 1 145789.53713 421957.57227 Tributary 3 UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 | UP307204 | Representative Site | | | | 146182.17946 | 421531.04433 | Tributary 3 |
| UP308401 Exposed Pipe 5 1 1 145428.66605 421827.35682 Tributary 3 UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145430.98099 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308406 Pipe Outfall 3 3 1 145781.90970 421924.58436 Tributary 3 UP309101 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP309102 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145777.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 | UP307205 | • | 5 | 1 | 2 | 146188.54554 | | · |
| UP308403 Erosion 2 2 1 145430.40226 421839.51026 Tributary 3 UP308404 Inadequate Buffer 3 3 1 145430.98099 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308407 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP309101 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145717.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP310201 Pipe Outfall 5 1 | UP308401 | • | 5 | 1 | 1 | | | · |
| UP308404 Inadequate Buffer 3 3 1 145430.98099 421840.08900 Tributary 3 UP308405 Pipe Outfall 3 3 1 145429.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308407 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP309101 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145767.22622 421831.40797 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP310201 Pipe Outfall 5 1 <td>UP308403</td> <td></td> <td>2</td> <td>2</td> <td>1</td> <td>145430.40226</td> <td>421839.51026</td> <td>Tributary 3</td> | UP308403 | | 2 | 2 | 1 | 145430.40226 | 421839.51026 | Tributary 3 |
| UP308405 Pipe Outfall 3 3 1 145429.82352 421834.88038 Tributary 3 UP308406 Pipe Outfall 3 3 1 145481.90970 421924.58436 Tributary 3 UP308407 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP309101 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145771.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP310201 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310202 Pipe Outfall 3 3 | UP308404 | Inadequate Buffer | 3 | 3 | 1 | 145430.98099 | | Ī |
| UP308407 Pipe Outfall 2 4 2 145571.61368 421977.82801 Tributary 3 UP309101 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145771.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 5 1 | | | 3 | 3 | 1 | 145429.82352 | | |
| UP309101 Pipe Outfall 3 3 1 145799.05666 422048.43372 Tributary 3 UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 1457717.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146130.67201 421926.32056 Tributary 3 UP310205 Representative Site 146130.67201 | UP308406 | Pipe Outfall | 3 | 3 | 1 | 145481.90970 | 421924.58436 | Tributary 3 |
| UP309102 Pipe Outfall 3 3 1 145780.53713 421957.57227 Tributary 3 UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145717.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 | UP308407 | Pipe Outfall | 2 | 4 | 2 | 145571.61368 | 421977.82801 | Tributary 3 |
| UP309103 Representative Site 145769.54116 421908.95850 Tributary 3 UP309401 Fish Barrier 4 3 1 145717.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP309101 | Pipe Outfall | 3 | 3 | 1 | 145799.05666 | 422048.43372 | Tributary 3 |
| UP309401 Fish Barrier 4 3 1 145717.45498 421961.62342 Tributary 3 UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP309102 | Pipe Outfall | 3 | 3 | 1 | 145780.53713 | 421957.57227 | Tributary 3 |
| UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP309103 | Representative Site | | | | 145769.54116 | | · |
| UP309402 Pipe Outfall 2 4 3 145767.22622 421831.40797 Tributary 3 UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP309401 | Fish Barrier | 4 | 3 | 1 | 145717.45498 | 421961.62342 | Tributary 3 |
| UP309403 Pipe Outfall 5 1 2 145755.07278 421753.27870 Tributary 3 UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP309402 | Pipe Outfall | 2 | 4 | 3 | | | · |
| UP310201 Pipe Outfall 3 3 2 146128.93581 421797.84132 Tributary 3 UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP309403 | Pipe Outfall | 5 | 1 | 2 | | | · |
| UP310202 Pipe Outfall 5 1 2 146112.15248 421848.19129 Tributary 3 UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP310201 | | 3 | 3 | 2 | 146128.93581 | | |
| UP310203 Pipe Outfall 3 3 2 146120.25478 421926.32056 Tributary 3 UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP310202 | Pipe Outfall | 5 | 1 | 2 | | | Ī |
| UP310204 Pipe Outfall 5 1 2 146131.82948 421995.76880 Tributary 3 UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP310203 | Pipe Outfall | 3 | 3 | 2 | 146120.25478 | 421926.32056 | Tributary 3 |
| UP310205 Representative Site 146130.67201 422114.40955 Tributary 3 | UP310204 | Pipe Outfall | 5 | 1 | 2 | 146131.82948 | | |
| | UP310205 | Representative Site | | | | 146130.67201 | 422114.40955 | Tributary 3 |
| | UP312101 | Erosion | 3 | 4 | 2 | 145991.77553 | | |

| UP312102 Pipe Outfall 3 3 1 1.45992.35427 422599.38976 [Tributary 3 UP312103] Pipe Outfall 3 3 1 1.45991.77553 422581.86620 [Tributary 3 UP312105] Fish Barrier 5 1 1.45992.33427 422599.38976 [Tributary 3 UP312105] Fish Barrier 5 1 1.45992.33427 422599.38976 [Tributary 3 UP312105] Fish Barrier 5 1 1.45992.33427 422599.38976 [Tributary 3 UP312105] Fish Barrier 5 1 1.45992.33427 422599.38976 [Tributary 3 UP312107] Inadequate Buffer 3 3 2 1.45970.38232 422445.44616 [Tributary 3 UP312107] Fish Barrier 3 5 5 1 1.45998.72035 422351.11230 [Tributary 3 UP312107] Fish Barrier 3 5 5 1 1.45908.72035 422351.11230 [Tributary 3 UP312110] Pipe Outfall 3 3 1 1.45998.72035 422351.11230 [Tributary 3 UP312111] Pipe Outfall 3 3 3 1 1.45946.05544 422402.04101 [Tributary 3 UP312111] Pipe Outfall 3 3 3 1 1.45946.05544 422402.04101 [Tributary 3 UP312112] Pipe Outfall 3 3 3 1 1.45946.05544 422236.92663 [Tributary 3 UP312112] Pipe Outfall 3 3 3 1 1.45946.05544 422238.83764 [Tributary 3 UP312112] Pipe Outfall 3 3 3 1 1.45946.05544 422238.83764 [Tributary 3 UP31212] Pipe Outfall 3 3 3 1 1.45946.05544 422248.6200 [Tributary 3 UP31212] Pipe Outfall 3 3 3 1 1.45946.05544 422248.6200 [Tributary 3 UP31212] Pipe Outfall 3 3 3 1 1.45946.05544 422248.6200 [Tributary 3 UP313201] Pipe Outfall 3 3 2 1.46131.8869 422158.97217 [Tributary 3 UP313202] Pipe Outfall 3 3 3 2 1.46131.8869 422158.97217 [Tributary 3 UP313202] Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 [Tributary 3 UP313202] Pipe Outfall 3 3 3 2 1.4620.057599 422200.06237 [Tributary 3 UP313202] Pipe Outfall 3 3 3 1 1.46962.057599 422168.97217 [Tributary 3 UP313202] Pipe Outfall 3 3 3 1 1.46962.057599 422168.97217 [Tributary 3 UP313202] Pipe Outfall 3 3 3 1 1.46962.057599 422168.97217 [Tributary 3 UP313202] Pipe Outfall 3 3 3 1 1.46962.057599 422200.06237 [Tributary 3 UP313202] Pipe Outfall 3 3 3 1 1.46962.057599 422260.06037 [Tributary 3 UP313202] Pipe Outfall 3 3 1 1.46962.057599 422888.75747 [Tributary 3 UP313202] Pipe Outfall 3 3 1 1.46963.058091 422388.75747 [Tributary 3 UP313202] Pipe | Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|--|----------|---------------------|----------|----------------|--------|--------------|---------|--------|
| UP312103 Pipe Outfall 3 3 1 1.45991.77553 42291.86820 Tributary 3 UP312106 Erosion 5 1 1.45992.35427 422593.8876 Tributary 3 UP312106 Erosion 5 1 1.45992.35427 422593.8876 Tributary 3 UP312107 Erosion 5 1 1.45992.35427 422593.8876 Tributary 3 UP312108 Pipe Outfall 3 3 1 1.45998.72035 422351.11230 Tributary 3 UP312109 Pipe Dutfall 3 3 1 1.45998.72035 422351.11230 Tributary 3 UP312109 Pipe Outfall 3 3 1 1.45998.72035 422351.11230 Tributary 3 UP312109 Pipe Outfall 3 3 1 1.45998.72035 422351.11230 Tributary 3 UP312111 Pipe Outfall 3 3 1 1.45998.72035 422351.01230 Tributary 3 UP312112 Pipe Outfall 3 3 1 1.45998.72035 422351.01230 Tributary 3 UP312112 Pipe Outfall 3 3 1 1.45998.72035 422351.01230 Tributary 3 UP312112 Pipe Outfall 3 3 1 1.45998.72035 422347.06115 Tributary 3 UP312112 Pipe Outfall 3 3 1 1.45988.7269.85717 422365.58088 Tributary 3 UP312112 Pipe Outfall 3 3 1 1.45988.99940 422238.3764 Tributary 3 UP312112 Pipe Outfall 3 3 3 1 1.45988.99940 422238.3764 Tributary 3 UP312121 Comment 1.45980.99136 4222446.2600 Tributary 3 UP313201 Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 Tributary 3 UP313201 Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 Tributary 3 UP313201 Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 Tributary 3 UP313202 Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 Tributary 3 UP313202 Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 Tributary 3 UP313202 Pipe Outfall 3 3 3 2 1.46131.28075 422197.74743 Tributary 3 UP313202 Pipe Outfall 3 3 3 2 1.46220.37599 422200.06237 Tributary 3 UP313202 Pipe Outfall 3 3 3 2 1.4639.17595 422197.7473 Tributary 3 UP313202 Pipe Outfall 3 3 3 2 1.4639.17596 422197.1670 Tributary 3 UP313202 Pipe Outfall 3 3 3 1 1.46986.8914 422145.99102 Tributary 3 UP313202 Pipe Outfall 3 3 3 1 1.46986.8914 422240.9915 Tributary 3 UP313202 Pipe Outfall 3 3 1 1.46986.8914 422290.999.5907 Tributary 3 UP313202 Pipe Outfall 3 3 1 1.46986.8914 42290.999.5907 Tributary 3 UP313202 Pipe Outfall 3 3 2 1.46988.80312 422889.5917 Tributary 3 UP313202 Pipe Outfall 3 3 2 1.46988.80312 422889.5 | | | | | | | 9 | |
| UP312104 Inadequate Buffer 2 5 1 145992.35427 422599.38976 Tributary 3 UP312105 Fish Barrier 5 1 1 145992.3300 422594.18114 Tributary 3 UP312107 Inadequate Buffer 3 3 2 145970.94106 422444.86742 Tributary 3 UP312107 Inadequate Buffer 3 3 2 145970.94106 422444.86742 Tributary 3 UP312108 Pipe Outfall 3 3 1 145998.72035 422351.11230 Tributary 3 UP312109 Pipe Outfall 3 3 1 145998.72035 422235.11230 Tributary 3 UP312101 Pipe Outfall 3 3 1 145958.76762 422245.92663 Tributary 3 UP312112 Pipe Outfall 3 3 1 145958.76762 422245.92663 Tributary 3 UP312112 Pipe Outfall 3 3 1 145968.695717 422365.56068 Tributary 3 UP312112 Pipe Outfall 3 3 1 145968.95717 422365.56068 Tributary 3 UP312112 Pipe Outfall 3 3 1 145868.959717 422365.56068 Tributary 3 UP312112 Pipe Outfall 3 3 1 145868.959717 422365.56068 Tributary 3 UP312112 Pipe Outfall 3 3 1 145868.959717 422365.56068 Tributary 3 UP313201 Pipe Outfall 3 3 2 14613.8669 422168.97217 Tributary 3 UP313301 Pipe Outfall 3 3 2 14613.8669 422168.97217 Tributary 3 UP313202 Pipe Outfall 3 3 2 14613.26075 422197.7443 Tributary 3 UP313202 Pipe Outfall 3 3 2 14613.26075 422197.7443 Tributary 3 UP313202 Pipe Outfall 3 3 2 14613.26075 422197.7443 Tributary 3 UP313202 Pipe Outfall 3 3 2 14613.26075 422197.7443 Tributary 3 UP313202 Pipe Outfall 3 3 1 146452.44868 422169.9710 Tributary 3 UP313202 Pipe Outfall 3 3 1 146452.44868 422169.9710 Tributary 3 UP313202 Pipe Outfall 3 3 1 146998.93031 422197.7443 Tributary 3 UP313202 Pipe Outfall 3 3 1 146998.93031 422197.7443 Tributary 3 UP313202 Pipe Outfall 3 3 1 146988.93031 422197.9443 Tributary 3 UP313202 Pipe Outfall 3 3 1 146988.93031 422298.94501 Tributa | | | | | | | | · |
| UP312106 Fish Barrier 5 | - | ' | | | | | | • |
| UP312106 Erosion | | | | | | | | , |
| UP312107 Inadequate Buffer 3 3 2 145970.94106 422444.86742 Tributary 3 UP312109 Pipe Outfall 3 3 1 145998.70205 422351.11230 Tributary 3 UP312110 Pipe Outfall 3 3 1 145998.78762 42246.92686 Tributary 3 UP312111 Pipe Outfall 3 3 1 145998.98717 422365.58068 Tributary 3 UP312111 Pipe Outfall 3 3 1 145998.98717 422365.58068 Tributary 3 UP312112 Pipe Outfall 3 3 1 145989.98717 422365.58068 Tributary 3 UP312112 Pipe Outfall 3 3 1 145989.98717 422365.58068 Tributary 3 UP312113 Pipe Outfall 3 3 1 145989.98717 422365.58068 Tributary 3 UP312114 Comment 145880.98135 422246.5800 Tributary 3 UP313201 Pipe Outfall 3 3 2 146131.28075 422246.5800 Tributary 3 UP313201 Pipe Outfall 3 3 2 146131.28075 422197.74743 Tributary 3 UP313201 Pipe Outfall 3 3 2 146131.28075 422197.74743 Tributary 3 UP313202 Inadequate Buffer 2 5 2 146320.37599 422200.06237 Tributary 3 UP313202 Pipe Outfall 3 3 2 146320.37599 422200.06237 Tributary 3 UP314201 Representative Site 146320.37599 422200.06237 Tributary 3 UP314202 Pipe Outfall 3 3 1 146452.44866 422154.9210 Tributary 3 UP314202 Pipe Outfall 2 4 2 145990.40947 42238.87407 Tributary 3 UP315202 Pipe Outfall 2 4 2 145990.40947 42238.87407 Tributary 3 UP315202 Pipe Outfall 3 3 1 145992.35427 42269.91107 Tributary 3 UP315202 Pipe Outfall 3 3 1 145992.35427 42269.91107 Tributary 3 UP315202 Pipe Outfall 3 3 1 145992.35427 42269.91107 Tributary 3 UP315202 Pipe Outfall 3 3 1 145992.35427 422699.1107 Tributary 3 UP315200 Pipe Outfall 3 3 1 145992.35427 422699.1107 Tributary 3 UP315200 Pipe Outfall 3 3 1 145992.35427 422699.1107 Tributary 3 UP315200 Pipe Outfall 3 3 1 145992.35427 422699.1107 Tributary 3 UP315200 Pipe Out | - | | | | 2 | | | · |
| UP312108 Pipe Outfall 3 | | | | | | | | - |
| UP312109 Fish Barrier 3 | | | | | | | | · |
| UP312110 Pipe Outfall 3 | | • | | | 1 | | | · |
| UP312111 Pipe Outfall 3 | | | | | | | | · · · |
| UP312112 | - | • | | | | | | , |
| UP312113 | - | • | | | | | | · |
| UP3132114 Comment | | | | | 1 | | | · |
| UP313201 Representative Site | | • | | - | | | | · |
| UP313201 Pipe Outfall 3 3 2 146113.88669 422158.97217 Tributary 3 UP313202 Inadequate Buffer 2 5 2 146131.25075 422197.74743 Tributary 3 UP313203 Pipe Outfall 3 3 2 146230.75759 422200.06237 Tributary 3 UP314201 Pipe Outfall 3 3 2 146220.37569 422200.06237 Tributary 3 UP314202 Pipe Outfall 3 3 1 146452.44866 422154.92102 Tributary 3 UP314202 Pipe Outfall 3 3 1 146452.44866 422154.92102 Tributary 3 UP314202 Pipe Outfall 2 4 2 145994.09047 422638.74376 Tributary 3 UP315202 Pipe Outfall 2 4 2 145994.68921 422644.53111 Tributary 3 UP315203 Inadequate Buffer 3 5 2 145991.77553 422610.38573 Tributary 3 UP315205 Pipe Outfall 3 3 1 145992.35427 422669.41673 Tributary 3 UP315206 Pipe Outfall 3 3 1 145992.35427 422669.41673 Tributary 3 UP315206 Pipe Outfall 3 3 2 145996.98415 422699.51097 Tributary 3 UP315206 Pipe Outfall 3 3 2 145996.98415 422699.51097 Tributary 3 UP315207 Pipe Outfall 3 3 2 145998.3427 422699.51097 Tributary 3 UP315207 Pipe Outfall 3 3 2 146203.7599 422886.75742 Tributary 3 UP315207 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP316203 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP316203 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP317207 Pipe Outfall 3 3 2 146366.58752 422907.85569 Tributary 3 UP317207 Pipe Outfall 3 3 2 146366.58751 422906.23171 Tributary 3 UP317207 Pipe Outfall 5 1 2 146366.58761 423009.71311 Tributary 3 UP318203 Pipe Outfall 5 1 2 146366.58761 423009.71311 Tributary 3 UP318203 Pipe Outfall 3 3 2 146366.58761 423009.71311 Tributary 3 UP318204 Pipe Outfall 3 3 2 146366.58761 423309.49801 Tributary 3 UP318204 Pipe Outfall 3 3 2 146366.587223 423181.41420 | | | | | | | | · |
| UP315202 Inadequate Buffer 2 5 2 146131.25075 422197.74743 Tributary 3 UP315203 Pipe Outfall 3 3 2 146131.25075 422197.74743 Tributary 3 UP315204 Pipe Outfall 3 3 2 14620.37599 422200.06237 Tributary 3 UP314202 Pipe Outfall 3 3 2 146220.37599 422200.06237 Tributary 3 UP314202 Pipe Outfall 3 3 1 146452.44886 422154.92102 Tributary 3 UP314203 Exposed Pipe 4 1 1 146454.18506 422153.18481 Tributary 3 UP315201 Pipe Outfall 2 4 2 145994.09047 422638.74376 Tributary 3 UP315201 Pipe Outfall 2 4 2 145994.09047 422638.74376 Tributary 3 UP315203 Inadequate Buffer 3 5 2 145991.77553 422610.38573 Tributary 3 UP315203 Inadequate Buffer 3 5 2 145991.77553 422610.38573 Tributary 3 UP315205 Pipe Outfall 3 3 1 145995.24794 422669.41673 Tributary 3 UP315206 Pipe Outfall 3 3 1 145998.39427 422669.41673 Tributary 3 UP315206 Pipe Outfall 3 3 2 145996.98415 422699.51097 Tributary 3 UP315207 Pipe Outfall 3 3 2 145996.98416 422699.51097 Tributary 3 UP315207 Pipe Outfall 3 3 2 145998.30312 422731.92015 Tributary 3 UP315207 Pipe Outfall 3 3 2 14620.37599 422888.75742 Tributary 3 UP316201 Pipe Outfall 3 3 2 146220.37599 422888.75742 Tributary 3 UP315207 Pipe Outfall 3 3 2 146220.37599 422888.07572 Tributary 3 UP317201 Pipe Outfall 5 1 2 146326.16615 422009.78569 Tributary 3 UP317202 Pipe Outfall 5 1 2 146386.53223 423178.70383 Tributary 3 UP318209 Pipe Outfall 3 3 2 146368.53223 423178.70383 Tributary 3 UP318209 Pipe Outfall 3 3 2 146368.53208 42330.94801 Tributary 3 UP318209 Pipe Outfall 3 3 2 146368.53208 42330.94801 Tributary 3 UP318209 Pipe Outfall 3 3 2 146638.53208 42330.94801 Tributary 3 UP318209 Pipe Outfall 3 3 2 146638.50808 423330.94805 | | ' | 3 | 3 | 2 | | | · |
| UP313204 Pipe Outfall 3 3 3 2 146220,37599 422200,06237 Tributary 3 UP314201 Representative Site | | | | | | | | · |
| UP315204 Pipe Outfall 3 | | | | | | | | |
| UP314201 Representative Site | - | • | | | | | | · |
| UP314202 Pipe Outfall 3 | | ' | | | | | | · |
| UP314203 Exposed Pipe 4 | - | • | 3 | 3 | 1 | | | · |
| UP315201 Pipe Outfall 2 | | ' | | | | | | |
| UP315202 Representative Site | | F F - | | | | | | |
| UP315203 Inadequate Buffer 3 5 2 145991.77553 422610.38573 Tributary 3 UP315204 Pipe Outfall 3 3 1 145995.24794 422669.41673 Tributary 3 UP315205 Pipe Outfall 3 3 1 145995.24794 422669.41673 Tributary 3 UP315206 Pipe Outfall 3 3 2 145986.98415 422699.51097 Tributary 3 UP315207 Pipe Outfall 3 3 2 145988.30312 422731.92015 Tributary 3 UP315207 Pipe Outfall 3 3 2 145988.30312 422731.92015 Tributary 3 UP316201 Pipe Outfall 3 3 2 146220.37599 422888.75742 Tributary 3 UP316202 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP316203 Erosion 3 3 1 146258.57252 422907.85569 Tributary 3 UP317201 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP317204 Pipe Outfall 3 3 2 146368.53223 423178.70383 Tributary 3 UP318202 Pipe Outfall 3 3 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146510.32239 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423309.49801 Tributary 3 UP318206 Fish Barrier 3 5 1 146613.23239 423309.49801 Tributary 3 UP318206 Fish Barrier 3 5 1 146613.23239 423309.49801 Tributary 3 UP318207 Pipe Outfall 5 1 2 146602.34131 423309.34961 Tributary 3 UP318207 Pipe Outfall 5 1 2 146602.34131 423309.34961 Tributary 3 UP318207 Pipe Outfall 5 1 2 146602.34131 423309.34961 Tributary 3 UP318207 Pipe Outfall 5 1 2 146602.34131 423309.34961 Tributary 3 UP318207 Pipe Outfall 5 1 2 146602.34131 423309.34961 Tributary 3 UP318207 Pipe Outfall 5 1 2 146602.34131 423309.34962 Tr | | | | | | | | , |
| UP315204 Pipe Outfall 3 | - | | 3 | 5 | 2 | | | · · · |
| UP315205 Pipe Outfall 3 1 145992.35427 422669.41673 Tributary 3 UP315206 Pipe Outfall 3 3 2 145996.98415 422699.51097 Tributary 3 UP315207 Pipe Outfall 3 3 2 145988.30312 422731.92015 Tributary 3 UP316201 Pipe Outfall 3 3 2 146220.37599 422888.75742 Tributary 3 UP316202 Pipe Outfall 3 3 2 146258.77252 422997.85569 Tributary 3 UP317201 Pipe Outfall 5 1 2 146362.28455 422997.85569 Tributary 3 UP317202 Pipe Outfall 5 1 2 146361.58741 422988.04416 Tributary 3 UP317204 Pipe Outfall 3 3 2 146361.58741 422988.04416 Tributary 3 UP318201 Pipe Outfall 3 3 2 146361.58741 422988.04416 Tributary 3 UP318202 Pipe Outfall < | | | | | | | | · |
| UP315206 Pipe Outfall 3 | | | | | | | | · |
| UP315207 Pipe Outfall 3 3 2 145988.30312 422731.92015 Tributary 3 UP316201 Pipe Outfall 3 3 2 146220.37599 422888.75742 Tributary 3 UP316202 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP316203 Erosion 3 3 1 146258.57252 422907.85569 Tributary 3 UP317201 Pipe Outfall 5 1 2 146326.28455 422936.21372 Tributary 3 UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP318201 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146366.53223 423178.70383 Tributary 3 UP318204 Pipe Outfall 3 3 | | • | | | | | | · |
| UP316201 Pipe Outfall 3 2 146220.37599 422888.75742 Tributary 3 UP316202 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP316203 Erosion 3 3 1 146258.57252 422907.85569 Tributary 3 UP317201 Pipe Outfall 5 1 2 146326.28455 422936.21372 Tributary 3 UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP317204 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146368.53223 423134.14120 Tributary 3 UP318204 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318205 Pipe Outfall 3 3 2 146508.58618 <td< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>·</td></td<> | | • | | | | | | · |
| UP316202 Pipe Outfall 3 3 2 146239.47425 422898.01719 Tributary 3 UP316203 Erosion 3 3 1 146258.57252 422907.85569 Tributary 3 UP317201 Pipe Outfall 5 1 2 146326.28455 422936.21372 Tributary 3 UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP317204 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146368.53223 423178.70383 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 | - | • | | | | | | · |
| UP316203 Erosion 3 3 1 146258.57252 422907.85569 Tributary 3 UP317201 Pipe Outfall 5 1 2 146326.28455 422936.21372 Tributary 3 UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP317204 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146368.59753 423134.14120 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 | - | • | | | | | | · |
| UP317201 Pipe Outfall 5 1 2 146326.28455 422936.21372 Tributary 3 UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP317204 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146368.53223 423134.14120 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 </td <td></td> <td>'</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>-</td> | | ' | | | 1 | | | - |
| UP317202 Pipe Outfall 5 1 2 146347.11903 422944.31602 Tributary 3 UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP317204 Pipe Outfall 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146368.53223 423134.14120 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 </td <td>-</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>·</td> | - | | | | 2 | | | · |
| UP317203 Representative Site 146361.58741 422968.04416 Tributary 3 UP317204 Pipe Outfall 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 2 146366.95753 423134.14120 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146525.20801 423309.91122 Tributary 3 UP319201 Representative Site 1 146602.34131 423361.00546 Tributary 3 UP319202 Exposed Pipe 5 | | | | 1 | 2 | | | · |
| UP317204 Pipe Outfall 3 3 2 146362.16615 423009.71311 Tributary 3 UP318201 Pipe Outfall 3 3 2 146356.95753 423134.14120 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Re | | ' | | | | | | • |
| UP318201 Pipe Outfall 3 3 2 146356.95753 423134.14120 Tributary 3 UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 1 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 </td <td></td> <td></td> <td>3</td> <td>3</td> <td>2</td> <td></td> <td></td> <td>-</td> | | | 3 | 3 | 2 | | | - |
| UP318202 Pipe Outfall 5 1 2 146368.53223 423178.70383 Tributary 3 UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423309.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 3 </td <td></td> <td></td> <td>3</td> <td>3</td> <td>_</td> <td></td> <td></td> <td></td> | | | 3 | 3 | _ | | | |
| UP318203 Channel Alteration 5 3 1 146483.70057 423283.45492 Tributary 3 UP318204 Pipe Outfall 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146 | | • | 5 | 1 | 2 | | | · |
| UP318204 Pipe Outfall 3 2 146508.58618 423309.49801 Tributary 3 UP318205 Pipe Outfall 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146885.34289 423631.27486 Tributary 3 UP320203 Fish Barrier 3 146885.34289 423631.27486 | | • | | | 1 | | | - |
| UP318205 Pipe Outfall 3 3 2 146510.32239 423308.34054 Tributary 3 UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | | | 3 | 2 | | | · |
| UP318206 Fish Barrier 3 5 1 146515.06144 423313.71357 Tributary 3 UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146882.09924 423561.82662 Tributary 3 UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | | | 3 | | | | · |
| UP318207 Pipe Outfall 3 3 1 146535.20801 423330.91122 Tributary 3 UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | • | | 5 | 1 | | | , |
| UP318208 Pipe Outfall 5 1 2 146602.34131 423361.00546 Tributary 3 UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146832.09924 423561.82662 Tributary 3 UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | | | 3 | 1 | | | |
| UP319201 Representative Site 146632.43555 423364.47787 Tributary 3 UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146832.09924 423561.82662 Tributary 3 UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | • | | | 2 | | | · |
| UP319202 Exposed Pipe 5 1 3 146729.66308 423378.94625 Tributary 3 UP320201 Pipe Outfall 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146832.09924 423561.82662 Tributary 3 UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | • | - | | | | | , |
| UP320201 Pipe Outfall 3 3 2 146872.03197 423572.82259 Tributary 3 UP320202 Pipe Outfall 2 4 2 146832.09924 423561.82662 Tributary 3 UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | • | 5 | 1 | 3 | | | |
| UP320202 Pipe Outfall 2 4 2 146832.09924 423561.82662 Tributary 3 UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | ' ' | | | | | | · |
| UP320203 Fish Barrier 3 5 3 146885.34289 423631.27486 Tributary 3 UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | ' | | | | | | · · · |
| UP320204 Pipe Outfall 5 1 2 146908.49230 423697.82942 Tributary 3 | | • | | | | | | - |
| | | | | | | | | - |
| | UP321201 | Representative Site | - | • | = | 146932.79919 | | · |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|----------------------------------|----------|----------------|--------|------------------------------|------------------------------|--------------|
| | Fish Barrier | 3 | 5 | 2 | 146987.20031 | 423793.89949 | |
| | Pipe Outfall | 3 | 3 | 2 | 147081.53417 | 423960.57526 | , |
| | Fish Barrier | 3 | 5 | 2 | 147086.16405 | 423984.88215 | · |
| | Exposed Pipe | 4 | 4 | 2 | 147086.74278 | | , |
| | Fish Barrier | 5 | 2 | 1 | 147126.09679 | 424137.08954 | · · |
| | Trash Dumping | 5 | 1 | 1 | 147126.67552 | 424134.77460 | · · |
| | Representative Site | | | | 147119.15196 | 424209.43146 | · |
| UP401301 | Pipe Outfall | 3 | 3 | 2 | 144441.72939 | 423054.85446 | , |
| UP401301 | Comment | | | | 144442.30813 | 423054.85446 | |
| | Pipe Outfall | 3 | 3 | 2 | 144415.68630 | 423031.70505 | |
| | Pipe Outfall | 3 | 3 | 2 | 144387.90701 | 423012.02805 | |
| UP401304 | • | 3 | 3 | 2 | 144389.06448 | 423011.44931 | |
| | Inadequate Buffer | 4 | 3 | 2 | 144389.64321 | 423012.02805 | |
| UP404301 | Pipe Outfall | 3 | 3 | 1 | 144791.28553 | 423140.50729 | |
| UP404301 | Comment | | | | 144791.28553 | 423140.50729 | |
| | Pipe Outfall | 3 | 3 | 2 | 144646.60170 | 423263.19918 | |
| | Trash Dumping | 3 | 2 | 3 | 144662.22756 | 423256.25436 | |
| | Fish Barrier | 4 | 3 | 1 | 144699.26662 | 423209.37680 | |
| UP404305 | | 4 | 3 | 1 | 144695.21547 | 423207.06186 | |
| UP404305 | | | | ' | 144695.21547 | 423208.21933 | |
| | Pipe Outfall | 3 | 3 | 1 | 144630.39711 | 423170.02280 | |
| | Pipe Outfall | 5 | 1 | 2 | 144550.53164 | 423170.02280 | |
| | Channel Alteration | 3 | 3 | 2 | 144692.32179 | | |
| | | 1 | 4 | 2 | | | |
| | Inadequate Buffer Fish Barrier | 4 | 3 | 2 | 145045.35035 144947.10520 | 423484.27608 423438.96757 | |
| | Fish Barrier | 4 | 3 | 2 | 144946.90740 | 423438.80840 | |
| UP405303 | | 4 | 3 | | 144946.89375 | 423438.88432 | |
| | Pipe Outfall | 3 | 3 | 2 | 144940.89373 | 423405.56808 | |
| | ' ! | 3 | 3 | 1 | | 423405.56606 | |
| | Pipe Outfall | 3 | 3 | 1 | 145463.77599 | | |
| UP407302 | | 3 | 3 | 2 | 145465.51220 | 423311.23422 423367.37154 | |
| | Pipe Outfall Representative Site | 3 | 3 | | 145482.87426 | | |
| UP409301 | ' | 3 | 3 | 5 | 145326.61572 145206.23877 | 423634.74727 | |
| | Erosion | 4 | 3 | 3 | | 423736.60469 | |
| UP410301 | Fish Barrier | | _ | | 145530.90929 | 423636.48348 | |
| | Channel Alteration | 5 1 | <u>3</u> 5 | 3 | 145531.48803 | | |
| UP410303 | | | | 4 | 145534.96044 | 423641.69209 | |
| UP410304 | | 3 | 3 | 5 | 145475.92944 | 423687.99092 | |
| UP411401 | | 3 | 2 | 3 | 145748.51378 | | Marsh Branch |
| | Fish Barrier | 5 | 2 | 2 | 145748.51378 | 423690.88460 | |
| | Fish Barrier | 5 | 2 | 3 | 145793.07640 | | Marsh Branch |
| UP412402 | | 1 | 5 | 4 | 145790.18272 | | Marsh Branch |
| | Representative Site | | | 4 | 145876.41429 | 424376.10723 | |
| UP413401 | Pipe Outfall | 5 | 1 | 1 | 145897.15230 | 424464.07500 | |
| UP413402 | | 3 | 3 | 2 | 145890.88267 | 424532.94451 | |
| UP413402 | | | | | 145891.46141 | 424534.10198 | |
| | Pipe Outfall | 5 | 1 | 1 | 145951.55343 | | Marsh Branch |
| UP415101 | | _ | | | 146463.83065 | | Marsh Branch |
| UP502401 | Fish Barrier | 4 | 1 | 1 | 143702.20209 | 423957.68159 | |
| UP504401 | Channel Alteration | 5 | 1 | 1 | 143823.15778 | 423986.03962 | · · |
| UP504402 | Fish Barrier | 4 | 1 | 1 | 143823.15778 | 423986.03962 | Tributary 4 |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|--------|--------------|--------------|---------------------------------------|
| UP504403 | Unusual Condition | 3 | 3 | 1 | 143819.10663 | 423985.46088 | |
| | Inadequate Buffer | 4 | 1 | 1 | 143840.51984 | 423987.77582 | |
| - | Erosion | 3 | 5 | 1 | 143848.04340 | | |
| UP504406 | Channel Alteration | 5 | 3 | 3 | 143756.60321 | 424318.23370 | i |
| UP504407 | Erosion | 3 | 3 | 3 | 143709.14692 | 424280.61590 | , , , , , , , , , , , , , , , , , , , |
| UP504408 | Fish Barrier | 5 | 1 | 4 | 143756.02448 | 424303.76532 | , , , , , , , , , , , , , , , , , , , |
| | Fish Barrier | 5 | 3 | 4 | 143678.47394 | 424276.56476 | |
| UP505401 | Pipe Outfall | 3 | 3 | 1 | 143872.35028 | 424094.26313 | |
| UP505402 | Fish Barrier | 4 | 1 | 1 | 143874.08649 | 424111.04645 | , , , , , , , , , , , , , , , , , , , |
| UP505403 | Pipe Outfall | 3 | 3 | 1 | 143895.49969 | 424266.72625 | , |
| | Representative Site | | | | 143886.23993 | 424344.85553 | , , , , , , , , , , , , , , , , , , , |
| - | Pipe Outfall | 2 | 4 | 1 | 143931.38128 | | , |
| | Erosion | 3 | 3 | 1 | 143884.50372 | 424355.27276 | i |
| UP505407 | Fish Barrier | 5 | 1 | 1 | 143871.77154 | 424400.41412 | · |
| UP506401 | Inadequate Buffer | 4 | 1 | 1 | 144328.97246 | | · |
| UP506402 | Fish Barrier | 5 | 1 | 1 | 144337.65349 | | , |
| UP506403 | Fish Barrier | 5 | 1 | 1 | 144316.24028 | | , |
| UP506404 | Pipe Outfall | 5 | 1 | 2 | 144295.98454 | 424285.82452 | i |
| UP508001 | Unusual Condition | 3 | 5 | 2 | 144035.36073 | 424714.08867 | , |
| | Exposed Pipe | 4 | 3 | 2 | 143880.45257 | 424452.50030 | , |
| UP508402 | Channel Alteration | 5 | 2 | 1 | 143883.92499 | 424464.65374 | , |
| | Erosion | 1 | 5 | 1 | 144039.02606 | 424718.13982 | , , , , , , , , , , , , , , , , , , , |
| | Pipe Outfall | 3 | 3 | 1 | 144019.34905 | 424836.20182 | , |
| | Fish Barrier | 5 | 2 | 3 | 144109.05303 | 424883.65812 | · |
| | Fish Barrier | 4 | 1 | 1 | 144217.27654 | | i |
| | Fish Barrier | 5 | 1 | 1 | 144242.74089 | 424797.42656 | • |
| | Fish Barrier | 5 | 3 | 3 | 144366.01152 | 424678.78581 | • |
| UP509404 | Fish Barrier | 4 | 1 | 1 | 144368.32646 | | • |
| UP509405 | Unusual Condition | 4 | 5 | 1 | 144356.75175 | | i |
| UP509406 | Fish Barrier | 5 | 1 | 2 | 144304.08684 | 424469.28362 | , , , , , , , , , , , , , , , , , , , |
| UP509407 | Erosion | 3 | 3 | 1 | 144324.34258 | 424439.18938 | Tributary 4 |
| UP510401 | Fish Barrier | 5 | 3 | 3 | 144155.35186 | 424910.27995 | , , , , , , , , , , , , , , , , , , , |
| UP511401 | Representative Site | | | | 144220.74895 | 424962.94486 | Tributary 4 |
| UP511402 | Fish Barrier | 5 | 1 | 2 | 144345.17705 | 425221.06082 | Tributary 4 |
| UP511403 | Fish Barrier | 5 | 1 | 2 | 144372.37761 | 425327.54812 | · · |
| UP602201 | Pipe Outfall | 3 | 3 | 1 | 141616.53640 | | Green Branch |
| UP602202 | Representative Site | | | | 141527.98989 | 423837.88337 | Green Branch |
| UP602203 | Pipe Outfall | 3 | 3 | 1 | 141453.33304 | 423928.74482 | Green Branch |
| UP603301 | Representative Site | | | | 142327.80213 | 423632.43233 | Green Branch |
| UP604306 | Fish Barrier | 4 | 3 | 2 | 142554.08764 | 423870.87129 | Green Branch |
| UP604307 | Unusual Condition | 3 | 3 | 2 | 142533.83191 | 423859.87531 | Green Branch |
| UP604308 | Fish Barrier | 4 | 3 | 2 | 142526.88708 | 423855.82417 | Green Branch |
| UP604309 | Erosion | 3 | 4 | 2 | 142551.77270 | 423870.87129 | Green Branch |
| | Inadequate Buffer | 3 | 3 | 2 | 142544.24914 | | Green Branch |
| | Fish Barrier | 5 | 2 | 2 | 142511.26123 | 423845.40693 | Green Branch |
| UP604312 | Fish Barrier | 5 | 2 | 2 | 142444.12793 | 423763.22651 | Green Branch |
| | Exposed Pipe | 4 | 3 | 2 | 142429.65955 | | Green Branch |
| | Fish Barrier | 5 | 3 | 2 | 142425.02966 | | Green Branch |
| UP604401 | Fish Barrier | 5 | 5 | 1 | 142636.84680 | | Green Branch |
| | Exposed Pipe | 3 | 4 | 1 | 142633.37438 | 423767.27766 | Green Branch |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|--------|--------------|--------------|--------------|
| UP604403 | | 3 | 3 | 1 | 142627.58703 | 423773.06501 | |
| UP604404 | Fish Barrier | 5 | 4 | 1 | 142575.50085 | | Green Branch |
| | Unusual Condition | 3 | 3 | 1 | 142568.55603 | | Green Branch |
| - | Inadequate Buffer | 4 | 2 | 2 | 142676.77953 | | Green Branch |
| | Channel Alteration | 4 | 2 | 1 | 142653.63012 | 423726.76619 | Green Branch |
| | Fish Barrier | 5 | 5 | 1 | 142653.63012 | | Green Branch |
| UP607201 | Pipe Outfall | 5 | 1 | 1 | 141385.04227 | | Green Branch |
| UP607202 | ' ! | 5 | 1 | 1 | 141273.92508 | 424149.24298 | Green Branch |
| UP607203 | Exposed Pipe | 5 | 1 | 1 | 141251.93314 | 424196.69928 | Green Branch |
| UP607204 | Pipe Outfall | 3 | 3 | 1 | 141203.89811 | 424277.72223 | Green Branch |
| UP607205 | Pipe Outfall | 5 | 1 | 1 | 141202.74064 | 424362.21759 | Green Branch |
| UP607206 | Trash Dumping | 5 | 1 | 2 | 141199.26822 | 424289.87567 | Green Branch |
| UP607207 | Inadequate Buffer | 4 | 4 | 1 | 141272.76761 | 424152.13666 | Green Branch |
| UP609001 | Fish Barrier | 3 | 5 | 1 | 142259.00044 | 424383.14701 | Green Branch |
| UP610001 | Inadequate Buffer | 4 | 2 | 1 | 142341.51544 | 424198.90119 | Green Branch |
| UP610401 | Pipe Outfall | 4 | 2 | 2 | 142417.89193 | 424086.73957 | Green Branch |
| UP610402 | Fish Barrier | 3 | 4 | 1 | 142425.99422 | 424083.26715 | Green Branch |
| UP610403 | Representative Site | | | | 142408.63216 | 424108.15277 | Green Branch |
| UP610404 | Pipe Outfall | 3 | 3 | 1 | 142359.43966 | 424174.70734 | Green Branch |
| UP613201 | Inadequate Buffer | 5 | 3 | 1 | 141309.61376 | 424454.23650 | Green Branch |
| UP613202 | Channel Alteration | 5 | 2 | 1 | 141309.03503 | 424453.65777 | Green Branch |
| UP613203 | Pipe Outfall | 5 | 1 | 1 | 141332.76317 | 424473.33477 | Green Branch |
| UP613204 | Fish Barrier | 3 | 4 | 1 | 141330.44823 | 424454.81524 | Green Branch |
| UP614201 | Unusual Condition | 3 | 4 | 3 | 141509.27745 | 424633.06572 | Green Branch |
| UP614202 | Fish Barrier | 5 | 4 | 2 | 141566.57225 | 424699.62029 | Green Branch |
| UP614203 | Erosion | 1 | 4 | 3 | 141567.15099 | 424699.62029 | Green Branch |
| UP614204 | Representative Site | | | | 141696.20897 | 424785.27311 | Green Branch |
| UP615201 | Pipe Outfall | 3 | 3 | 1 | 141823.53074 | 424585.03069 | Green Branch |
| UP615202 | Pipe Outfall | 3 | 3 | 1 | 141785.33421 | 424646.37663 | Green Branch |
| UP615203 | Unusual Condition | 4 | 4 | 1 | 141804.43247 | 424612.23125 | Green Branch |
| UP615204 | Erosion | 3 | 4 | 2 | 141776.65318 | 424663.15996 | Green Branch |
| UP615205 | Pipe Outfall | 5 | 1 | 1 | 141756.97618 | 424714.08867 | Green Branch |
| UP616401 | Exposed Pipe | 5 | 1 | 1 | 142258.16098 | 424467.54742 | Green Branch |
| UP616402 | Erosion | 1 | 5 | 1 | 142259.31845 | 424468.70489 | Green Branch |
| UP616403 | Fish Barrier | 3 | 1 | 1 | 142258.73971 | 424471.59856 | Green Branch |
| UP616404 | Comment | | | | 142277.25924 | 424547.41289 | Green Branch |
| UP616405 | Inadequate Buffer | 3 | 1 | 1 | 142267.42074 | 424560.14507 | Green Branch |
| UP616406 | Pipe Outfall | 3 | 3 | 1 | 142230.96041 | 424631.32952 | Green Branch |
| UP616407 | Exposed Pipe | 5 | 1 | 1 | 142246.58627 | 424629.01457 | Green Branch |
| UP616408 | Pipe Outfall | 2 | 4 | 1 | 142214.17709 | 424641.74675 | Green Branch |
| UP618201 | Representative Site | | | | 141668.42967 | 424929.95695 | Green Branch |
| UP618202 | Unusual Condition | 5 | 3 | 5 | 141708.36241 | 425167.23844 | Green Branch |
| UP618203 | | 4 | 4 | 5 | 141644.12278 | 425181.12808 | Green Branch |
| UP618204 | Fish Barrier | 5 | 1 | 5 | 141546.89525 | 425182.28555 | Green Branch |
| UP618205 | Representative Site | | | | 141508.69872 | 425168.39591 | Green Branch |
| UP619101 | Inadequate Buffer | 4 | 1 | 1 | 141850.73130 | 425329.86306 | Green Branch |
| UP619102 | ' | 3 | 3 | 1 | 141787.07041 | | Green Branch |
| | Representative Site | | | | 141776.07444 | 425249.41885 | Green Branch |
| UP619104 | | 5 | 3 | 1 | 141734.98423 | | Green Branch |
| UP620401 | Fish Barrier | 5 | 1 | 2 | 142145.88632 | 424975.67704 | Green Branch |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|--------|--------------|--------------|--------------|
| UP620402 | | 5 | 1 | 2 | 142147.62253 | 424964.68107 | |
| | Pipe Outfall | 3 | 3 | 2 | 142145.88632 | 425001.72013 | |
| — | Inadequate Buffer | 4 | 1 | 1 | 142138.36276 | | |
| | Pipe Outfall | 3 | 3 | 1 | 142119.84323 | 425236.10794 | |
| | Pipe Outfall | 3 | 3 | 2 | 142119.84323 | 425236.10794 | Green Branch |
| | Exposed Pipe | 3 | 3 | 2 | 142120.42197 | 425264.46597 | |
| | Pipe Outfall | 3 | 3 | 2 | 142053.28867 | | Green Branch |
| | Trash Dumping | 4 | 3 | 5 | 141754.66123 | 425693.88759 | Green Branch |
| UP622401 | Fish Barrier | 5 | 1 | 2 | 141959.53354 | | Green Branch |
| UP622402 | Representative Site | | | | 141900.50254 | 425377.31936 | Green Branch |
| | Fish Barrier | 2 | 5 | 1 | 141823.53074 | 426119.83680 | Green Branch |
| UP624102 | Erosion | 2 | 3 | 4 | 141825.26694 | 426127.36036 | Green Branch |
| | Representative Site | | | | 141839.15659 | 426196.22986 | Green Branch |
| | Fish Barrier | 5 | 1 | 3 | 141839.15659 | 426185.23389 | Green Branch |
| UP624105 | Fish Barrier | 5 | 1 | 3 | 141829.89683 | 426071.80176 | |
| UP624106 | Erosion | 3 | 5 | 3 | 141927.12436 | 425811.94960 | Green Branch |
| UP624107 | Representative Site | | | | 141843.78648 | 425867.50819 | Green Branch |
| UP704301 | Pipe Outfall | 3 | 3 | 2 | 141641.90430 | 423179.28256 | Mill Branch |
| UP704301 | Unusual Condition | 5 | 3 | 1 | 141641.90430 | 423177.54636 | Mill Branch |
| UP704302 | Inadequate Buffer | 2 | 3 | 1 | 141641.90430 | 423178.70383 | Mill Branch |
| UP705301 | Channel Alteration | 4 | 3 | 2 | 141398.25672 | 423477.33126 | Mill Branch |
| UP705302 | Representative Site | | | | 141263.99013 | 423288.66354 | Mill Branch |
| UP710301 | Pipe Outfall | 5 | 1 | 1 | 140825.30874 | 423722.13631 | Mill Branch |
| UP710302 | Channel Alteration | 4 | 3 | 1 | 140886.65469 | 423801.42305 | Mill Branch |
| UP710303 | Pipe Outfall | 5 | 1 | 1 | 140894.17825 | 423811.26155 | Mill Branch |
| UP711301 | Inadequate Buffer | 3 | 4 | 1 | 140782.48233 | 423666.57771 | Mill Branch |
| UP713301 | Pipe Outfall | 3 | 3 | 3 | 140045.75225 | 423632.43233 | Mill Branch |
| UP713302 | Inadequate Buffer | 4 | 3 | 3 | 140042.85857 | 423634.74727 | Mill Branch |
| UP713303 | Inadequate Buffer | 2 | 3 | 2 | 139980.35515 | 423709.40413 | Mill Branch |
| UP713304 | Pipe Outfall | 5 | 3 | 3 | 139980.93389 | 423704.77424 | Mill Branch |
| UP713305 | Erosion | 4 | 3 | 3 | 139980.35515 | 423704.19551 | Mill Branch |
| UP713306 | Pipe Outfall | 4 | 2 | 1 | 139920.74541 | 423950.73676 | Mill Branch |
| UP715301 | Fish Barrier | 5 | 2 | 2 | 139543.98871 | 423837.30464 | Mill Branch |
| UP715302 | Inadequate Buffer | 4 | 3 | 2 | 139514.47321 | 423868.55634 | Mill Branch |
| UP715303 | Erosion | 5 | 1 | 2 | 139420.71809 | 423918.32758 | Mill Branch |
| UP715304 | Pipe Outfall | 3 | 3 | 1 | 139343.16755 | 423886.49714 | Mill Branch |
| UP715305 | Trash Dumping | 4 | 2 | 3 | 139332.17158 | 423872.02876 | Mill Branch |
| UP715305 | Fish Barrier | 5 | 2 | 1 | 139332.17158 | 423872.60749 | Mill Branch |
| UP716301 | Fish Barrier | 5 | 1 | 4 | 139144.66133 | 423784.63972 | Mill Branch |
| UP718301 | Channel Alteration | 5 | 3 | 1 | 140970.57131 | 423984.30341 | Mill Branch |
| UP718302 | Inadequate Buffer | 3 | 3 | 2 | 141026.70864 | 424031.75971 | Mill Branch |
| UP718303 | Channel Alteration | 4 | 3 | 2 | 141023.81496 | 424038.70453 | Mill Branch |
| UP718304 | Unusual Condition | 4 | 2 | 2 | 141019.76381 | 424043.33442 | Mill Branch |
| UP718305 | Fish Barrier | 5 | 3 | 3 | 140937.00466 | 424121.46369 | Mill Branch |
| UP719301 | Erosion | 2 | 4 | 2 | 140702.03812 | 424202.48663 | Mill Branch |
| UP719302 | Unusual Condition | 3 | 4 | 2 | 140707.82547 | 424252.25787 | Mill Branch |
| UP719303 | Erosion | 4 | 3 | 2 | 140783.63980 | 424231.42340 | Mill Branch |
| UP719304 | Representative Site | | | | 140585.13358 | 424396.36297 | Mill Branch |
| UP720201 | Channel Alteration | 5 | 3 | 1 | 140287.08488 | 424228.52972 | Mill Branch |
| UP720202 | Exposed Pipe | 5 | 1 | 1 | 140266.25041 | 424234.89581 | Mill Branch |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|-----------|---------------------|----------|----------------|--------|--------------|--------------|---------------|
| | Unusual Condition | 3 | 3 | 2 | 140352.48197 | 424222.16363 | |
| UP720401 | Erosion | 3 | 3 | 2 | 140497.16581 | 424429.92962 | |
| UP721201 | Channel Alteration | 4 | 2 | 2 | 140205.48320 | | |
| UP721202 | Fish Barrier | 4 | 5 | 1 | 140158.60564 | 424330.96588 | Mill Branch |
| UP721203 | Exposed Pipe | 4 | 1 | 1 | 140133.72002 | 424352.37908 | Mill Branch |
| UP721204 | Unusual Condition | 4 | 4 | 2 | 140157.44817 | 424431.08709 | Mill Branch |
| | Representative Site | | | | 140144.71599 | 424414.30377 | Mill Branch |
| | Fish Barrier | 5 | 1 | 3 | 140114.04302 | 424369.74114 | |
| UP721301 | Pipe Outfall | 5 | 1 | 1 | 139916.45567 | 423981.31311 | |
| UP721302 | Pipe Outfall | 5 | 1 | 1 | 139915.53680 | 423986.03962 | Mill Branch |
| UP721303 | Pipe Outfall | 3 | 3 | 1 | 139920.16668 | 424161.39642 | Mill Branch |
| UP721304 | Pipe Outfall | 5 | 1 | 1 | 140002.92583 | 424256.30902 | Mill Branch |
| UP722301 | Erosion | 3 | 3 | 2 | 139898.17474 | 424057.80280 | Mill Branch |
| UP722302 | Pipe Outfall | 3 | 3 | 1 | 139890.07244 | 424095.99933 | Mill Branch |
| | Fish Barrier | 3 | 5 | 2 | 139656.26337 | 424340.22564 | |
| UP722304 | Inadequate Buffer | 4 | 3 | 2 | 139625.59039 | 424318.81244 | Mill Branch |
| UP722305 | Pipe Outfall | 5 | 1 | 1 | 139603.59845 | 424282.93084 | Mill Branch |
| UP723301 | Fish Barrier | 5 | 1 | 2 | 139503.47724 | 424227.37225 | |
| - | Trash Dumping | 4 | 2 | 3 | 139484.37897 | 424159.08148 | |
| UP723303 | | 3 | 4 | 2 | 139493.63874 | 424104.68036 | |
| UP723304 | Pipe Outfall | 3 | 3 | 1 | 139537.62262 | 424076.32233 | |
| | Pipe Outfall | 3 | 3 | 2 | 139515.63068 | 424034.07465 | |
| UP726401 | Inadequate Buffer | 3 | 1 | 1 | 138678.77939 | 424421.82732 | Mill Branch |
| | Representative Site | | - | - | 138555.50876 | | |
| | Inadequate Buffer | 5 | 5 | 1 | 140524.36637 | 424436.29571 | |
| | Erosion | 3 | 2 | 1 | 140523.78763 | 424436.29571 | |
| | Fish Barrier | 4 | 5 | 1 | 140567.19278 | | |
| UP728104 | Fish Barrier | 4 | 5 | 1 | 140541.14969 | | |
| UP728105 | Pipe Outfall | 5 | 1 | 1 | 140580.50370 | | |
| | Inadequate Buffer | 5 | 1 | 1 | 140568.92899 | 424780.06450 | |
| UP728107 | Channel Alteration | 5 | 1 | 1 | 140570.08646 | 424782.37944 | |
| UP730301 | Erosion | 4 | 3 | 1 | 140195.06596 | 424469.28362 | |
| UP730302 | Fish Barrier | 3 | 5 | 1 | 140103.04704 | 424574.61345 | |
| UP730303 | Unusual Condition | 3 | 3 | 1 | 140103.62578 | 424575.19219 | |
| | Unusual Condition | 3 | 3 | 1 | 140092.05107 | 424594.29045 | |
| UP730305 | Pipe Outfall | 5 | 1 | 1 | 140041.12236 | | |
| UP730305 | | 5 | 3 | 1 | 140041.12236 | | |
| UP730306 | | 2 | 3 | 3 | 140037.64995 | 424627.85710 | |
| UP730307 | Erosion | 3 | 3 | 3 | 139957.20574 | 424756.91508 | |
| | Trash Dumping | 3 | 3 | 3 | 140105.94072 | 424807.26506 | |
| | Representative Site | | | | 139921.32415 | | |
| UP731301 | Inadequate Buffer | 3 | 2 | 2 | 139808.47076 | 424845.46159 | |
| UP731302 | Erosion | 3 | 3 | 2 | 139733.81390 | 424878.44950 | |
| | Trash Dumping | 3 | 3 | 3 | 139649.31854 | 424705.40764 | |
| | Fish Barrier | 3 | 5 | 1 | 139684.62140 | 424613.96746 | |
| - | Trash Dumping | 4 | 3 | 2 | 139686.93634 | 424598.92034 | |
| UP731306 | | 3 | 3 | 1 | 139707.19208 | 424481.43706 | |
| UP732201 | Fish Barrier | 5 | 1 | 2 | 139352.42732 | 424817.68229 | |
| UP733301 | Representative Site | - | • | _ | 139181.12166 | 424762.70244 | |
| UP733302 | Erosion | 3 | 3 | 3 | 139027.75679 | 424711.19499 | |
| 01 700002 | | | | Ĭ | .00021.10010 | | iviiii Dianon |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------------------|---------------------------|----------|----------------|--------|------------------------------|--------------|---------------------------------|
| UP734301 | Representative Site | | , | | 138909.11605 | 424837.93803 | |
| | Trash Dumping | 3 | 3 | 3 | 138936.31661 | 424776.59208 | |
| | Trash Dumping | 3 | 3 | 2 | 138894.06893 | 424620.33354 | |
| UP734304 | Fish Barrier | 4 | 5 | 1 | 138820.56954 | 424548.57036 | |
| UP734305 | Pipe Outfall | 5 | 1 | 1 | 138819.99081 | 424548.57036 | |
| | Unusual Condition | 3 | 4 | 1 | 138821.14828 | 424548.57036 | |
| UP737201 | Representative Site | | | | 139616.90936 | 425302.08377 | |
| UP737202 | Comment | | | | 139604.17719 | 425146.98270 | |
| UP737203 | Fish Barrier | 5 | 2 | 5 | 139745.38861 | 424933.42936 | |
| UP737204 | Comment | | | | 139728.60528 | 424905.07133 | |
| UP738201 | Comment | | | | 139537.62262 | 425259.83609 | |
| UP738202 | Fish Barrier | 5 | 1 | 3 | 139524.31171 | 425251.73379 | |
| UP738203 | Unusual Condition | 5 | 5 | 4 | 139488.43012 | 425221.06082 | |
| UP738204 | | | | | 139376.15546 | 425058.43619 | |
| UP738205 | Fish Barrier | 5 | 2 | 4 | 139382.52155 | 425061.32987 | |
| UP738206 | Fish Barrier | 5 | 1 | 3 | 139380.20661 | 425059.01493 | |
| UP738207 | Unusual Condition | 3 | 4 | 3 | 139372.68305 | 425058.43619 | |
| UP738208 | Fish Barrier | 5 | 3 | 1 | 139302.07734 | 425146.40396 | |
| UP738208 | Unusual Condition | 5 | 5 | 1 | 139302.07734 | 425146.98270 | |
| UP738209 | Erosion | 1 | 5 | 1 | 139355.89973 | 425059.59366 | |
| UP740301 | Pipe Outfall | 3 | 3 | 1 | 138739.54660 | 424945.00407 | |
| UP740301 | Erosion | 3 | 3 | 1 | 138740.70407 | 424944.42533 | |
| | Inadequate Buffer | 4 | 2 | 1 | 138740.70407 | 424943.84660 | |
| UP740304 | Fish Barrier | 5 | 3 | 1 | 138772.53451 | 424929.95695 | |
| UP741202 | | 1 | 5 | 3 | 139608.80707 | 425391.20901 | |
| UP742201 | Erosion | 1 | 5 | 1 | 139583.34271 | 425590.29397 | |
| | Trash Dumping | 5 | 1 | 3 | 148266.10894 | | Horsepen Branch |
| UP801302 | | 4 | 3 | 1 | | | • |
| | | 3 | 3 | 1 | 148227.91241 | | Horsepen Branch |
| UP802301 | Pipe Outfall | 2 | 4 | 2 | 148582.67717 148550.26799 | | Horsepen Branch Horsepen Branch |
| UP802303 | | 5 | 1 | 3 | | | |
| UP802304 | | 5 | 1 | 3 | 148550.84673 | | Horsepen Branch |
| - | Fish Barrier | 5 | 1 | 3 | 148536.95708 | | Horsepen Branch |
| UP803301 | Trash Dumping | 5 | 1 | 1 | 148129.69103 148121.06683 | | Horsepen Branch |
| UP803302 | | _ | | | | | Horsepen Branch |
| | Inadequate Buffer | 3 5 | 3 1 | 1 | 148417.30355 | | Horsepen Branch |
| UP804302 UP804303 | • | 3 | 3 | 1 | 148366.95357 148268.56857 | | Horsepen Branch Horsepen Branch |
| UP804304 | | 5 | 3 | 1 | 148221.69100 | | Horsepen Branch |
| | | 3 | 3 | 1 | | | · |
| | Pipe Outfall Fish Barrier | 5 | 1 | 1 | 148226.89962 148176.54965 | | Horsepen Branch |
| | | | 1 | | | | Horsepen Branch |
| UP804307 | Fish Barrier | 5 | | 2 | 148356.53634 | | Horsepen Branch |
| UP804308 | Unusual Condition | 3 4 | 2 | 1 | 148283.03695 | | Horsepen Branch |
| UP805301 | Inadequate Buffer | | | | 148456.65755 | | Horsepen Branch |
| UP805302 | Erosion Ding Outfoll | 4 | 3 | 1 | 148461.28743 | | Horsepen Branch |
| UP805303 | | 3 | 3 | 1 | 148545.78279 | | Horsepen Branch |
| UP805304 | Representative Site | | 4 | | 148442.18917 | | Horsepen Branch |
| UP805305 | Fish Barrier | 5 | 1 | 2 | 148440.45296 | | Horsepen Branch |
| UP805306 | Erosion | 5 | 3 | 2 | 148441.03170 | | Horsepen Branch |
| UP805307 | Fish Barrier | 5 | 1 | 2 | 148478.07076 | | Horsepen Branch |
| UP807301 | Pipe Outfall | 3 | 3 | 2 | 147819.01419 | 417991.50626 | Horsepen Branch |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|-----------|---------------------|----------|----------------|--------|--------------|--------------|--------------------|
| UP807302 | Pipe Outfall | 3 | 3 | 2 | 147768.08548 | | Horsepen Branch |
| UP807303 | Pipe Outfall | 3 | 3 | 2 | 147697.47977 | | Horsepen Branch |
| UP808301 | Fish Barrier | 5 | 1 | 3 | 147995.52847 | | Horsepen Branch |
| UP808302 | Fish Barrier | 4 | 3 | 2 | 147914.50552 | | Horsepen Branch |
| UP808303 | Unusual Condition | 4 | 3 | 2 | 147852.00211 | | Horsepen Branch |
| UP809301 | Exposed Pipe | 3 | 4 | 2 | 148240.33352 | | Horsepen Branch |
| | Fish Barrier | 5 | 1 | 2 | 148192.87722 | | Horsepen Branch |
| UP809303 | Erosion | 3 | 3 | 2 | 148230.49501 | | Horsepen Branch |
| UP810301 | Fish Barrier | 5 | 2 | 2 | 148446.36329 | | Horsepen Branch |
| UP810302 | Erosion | 4 | 4 | 2 | 148524.49256 | | Horsepen Branch |
| UP810303 | Fish Barrier | 4 | 3 | 1 | 148612.77141 | | Horsepen Branch |
| UP810303 | Comment | | | | 148613.03907 | | Horsepen Branch |
| UP810304 | Channel Alteration | 2 | 4 | 1 | 148654.70802 | | Horsepen Branch |
| UP810305 | Pipe Outfall | 5 | 1 | 1 | 148678.43616 | | Horsepen Branch |
| UP811301 | Inadequate Buffer | 2 | 3 | 1 | 148769.45639 | | Horsepen Branch |
| UP811302 | Fish Barrier | 5 | 1 | 2 | 148813.14570 | | Horsepen Branch |
| UP813401 | Pipe Outfall | 3 | 3 | 1 | 145887.05985 | | Horsepen Branch |
| UP813402 | Inadequate Buffer | 3 | 3 | 1 | 145878.95756 | | Horsepen Branch |
| UP813403 | Pipe Outfall | 5 | 1 | 2 | 145700.70707 | | Horsepen Branch |
| UP813404 | Pipe Outfall | 4 | 2 | 1 | 145732.53752 | | Horsepen Branch |
| UP813405 | Pipe Outfall | 4 | 2 | 1 | 145923.52018 | | Horsepen Branch |
| | Pipe Outfall | 3 | 3 | 2 | 145948.98453 | | Horsepen Branch |
| UP813407 | Inadequate Buffer | 1 | 2 | 3 | 145973.29142 | | Horsepen Branch |
| | Trash Dumping | 3 | 2 | 3 | 145969.24027 | | Horsepen Branch |
| | Fish Barrier | 5 | 2 | 3 | 145969.81901 | | Horsepen Branch |
| | Exposed Pipe | 2 | 3 | 1 | 146012.64542 | | Horsepen Branch |
| UP814402 | Pipe Outfall | 4 | 2 | 1 | 146024.22013 | | Horsepen Branch |
| UP814403 | Exposed Pipe | 4 | 1 | 1 | 146053.15689 | | Horsepen Branch |
| | Exposed Pipe | 3 | 1 | 1 | 146181.05740 | | Horsepen Branch |
| | Pipe Outfall | 3 | 3 | 1 | 146195.52579 | | Horsepen Branch |
| UP817401 | Pipe Outfall | 2 | 4 | 1 | 146115.08157 | | Horsepen Branch |
| UP817402 | Inadequate Buffer | 3 | 2 | 2 | 146117.97525 | | Horsepen Branch |
| UP817403 | Channel Alteration | 5 | 2 | 1 | 146122.60513 | | Horsepen Branch |
| UP817404 | Erosion | 4 | 3 | 1 | 146116.81778 | | Horsepen Branch |
| | Representative Site | | - | | 146153.85684 | | Horsepen Branch |
| UP819401 | Unusual Condition | 3 | 3 | 2 | 146462.32278 | | Horsepen Branch |
| UP820201 | Fish Barrier | 5 | 2 | 1 | 146904.47657 | | Horsepen Branch |
| UP820202 | Pipe Outfall | 3 | 3 | 1 | 146909.68519 | | Horsepen Branch |
| UP821201 | Pipe Outfall | 5 | 1 | 1 | 146932.25587 | | Horsepen Branch |
| UP824301 | Unusual Condition | 3 | 5 | 3 | 148127.34433 | | Horsepen Branch |
| UP824302 | Erosion | 1 | 3 | 4 | 148120.97824 | | Horsepen Branch |
| UP824303 | Fish Barrier | 5 | 1 | 4 | 148035.32542 | | Horsepen Branch |
| UP824304 | Representative Site | | | | 147967.03465 | | Horsepen Branch |
| UP824305 | Inadequate Buffer | 5 | 3 | 3 | 147936.36167 | | Horsepen Branch |
| UP825301 | Fish Barrier | 5 | 1 | 2 | 148214.15463 | | Horsepen Branch |
| UP825302 | Erosion | 4 | 3 | 3 | 148191.00522 | | Horsepen Branch |
| UP826301 | Channel Alteration | 5 | 3 | 1 | 148471.11312 | | Horsepen Branch |
| UP828201 | Unusual Condition | 5 | 3 | 3 | 149095.56855 | | Horsepen Branch |
| UP828202 | Erosion | 3 | 4 | 2 | 149086.88752 | | Horsepen Branch |
| UP828203 | Inadequate Buffer | 5 | 2 | 1 | 149086.30878 | | Horsepen Branch |
| 01 020203 | madequate builei | J | | ' | 173000.30070 | 710204.11733 | i ioracpen brancii |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|--------|--------------|--------------|-----------------|
| UP828204 | Fish Barrier | 5 | 3 | 1 | 149094.98981 | | Horsepen Branch |
| UP829201 | Pipe Outfall | 3 | 3 | 1 | 145045.57868 | | Horsepen Branch |
| UP829202 | Construction | 3 | | | 145031.68903 | | Horsepen Branch |
| UP830201 | Erosion | 4 | 3 | 2 | 145157.27460 | | Horsepen Branch |
| UP830202 | Representative Site | | | | 145286.33258 | | Horsepen Branch |
| UP831201 | Fish Barrier | 5 | 1 | 3 | 145410.18194 | 418882.52989 | Horsepen Branch |
| UP831202 | Fish Barrier | 4 | 3 | 2 | 145474.42156 | | Horsepen Branch |
| UP831203 | Erosion | 3 | 2 | 2 | 145482.52385 | 418910.30919 | Horsepen Branch |
| UP832201 | Pipe Outfall | 5 | 1 | 2 | 145771.89152 | 418939.24595 | Horsepen Branch |
| UP832202 | Inadequate Buffer | 3 | 4 | 1 | 145785.78117 | 418946.19078 | Horsepen Branch |
| UP832203 | Representative Site | | | | 145901.52824 | | Horsepen Branch |
| UP832204 | Pipe Outfall | 5 | 1 | 1 | 145983.12992 | | Horsepen Branch |
| UP833201 | Pipe Outfall | 5 | 1 | 1 | 146001.64945 | | Horsepen Branch |
| UP833202 | Pipe Outfall | 3 | 4 | 2 | 146013.80289 | | Horsepen Branch |
| UP833203 | Unusual Condition | 4 | 3 | 3 | 146023.64139 | | Horsepen Branch |
| UP833204 | Pipe Outfall | 5 | 1 | 1 | 146128.39249 | | Horsepen Branch |
| UP833205 | Pipe Outfall | 5 | 1 | 1 | 146108.71549 | | Horsepen Branch |
| UP833206 | Pipe Outfall | 5 | 1 | 2 | 146238.35220 | | Horsepen Branch |
| UP834401 | Trash Dumping | 4 | 1 | 3 | 146597.16811 | | Horsepen Branch |
| UP835104 | Erosion | 3 | 5 | 3 | 146611.63649 | | Horsepen Branch |
| UP835105 | Fish Barrier | 5 | 2 | 3 | 146641.15199 | 418725.69261 | Horsepen Branch |
| | Pipe Outfall | 4 | 1 | 2 | 146674.71864 | 418714.11791 | Horsepen Branch |
| | Representative Site | | | | 146702.49794 | | Horsepen Branch |
| UP835201 | Erosion | 3 | 2 | 3 | 146819.98121 | | Horsepen Branch |
| | Fish Barrier | 5 | 2 | 2 | 146895.21681 | | Horsepen Branch |
| | Representative Site | | | | 146867.43751 | | Horsepen Branch |
| UP836201 | Fish Barrier | 5 | 2 | 1 | 146927.68702 | | Horsepen Branch |
| UP836202 | Unusual Condition | 4 | 2 | 1 | 147030.12318 | 418607.27342 | Horsepen Branch |
| UP836203 | Trash Dumping | 4 | 1 | 3 | 147066.00477 | 418588.75389 | Horsepen Branch |
| UP836204 | Pipe Outfall | 3 | 3 | 2 | 147068.89844 | 418585.28147 | Horsepen Branch |
| UP836205 | Inadequate Buffer | 5 | 1 | 1 | 147127.92945 | 418556.34471 | Horsepen Branch |
| UP836206 | Channel Alteration | 4 | 1 | 1 | 147141.81910 | 418554.60850 | Horsepen Branch |
| UP838101 | Representative Site | | | | 147737.33776 | 418750.22104 | Horsepen Branch |
| UP840101 | Inadequate Buffer | 3 | 5 | 1 | 148354.26962 | 418854.97214 | Horsepen Branch |
| UP840102 | Fish Barrier | 5 | 1 | 1 | 148369.89548 | 418837.61008 | Horsepen Branch |
| UP841101 | Unusual Condition | 3 | 5 | 1 | 148518.05172 | 418853.23593 | Horsepen Branch |
| UP841102 | Trash Dumping | 4 | 3 | 2 | 148514.57931 | 418630.42283 | Horsepen Branch |
| UP841201 | Representative Site | | | | 148585.95667 | 418855.55088 | Horsepen Branch |
| UP842201 | Fish Barrier | 5 | 3 | 3 | 148966.57161 | 418650.09983 | Horsepen Branch |
| UP842202 | Inadequate Buffer | 4 | 3 | 1 | 148883.23372 | 418684.82395 | Horsepen Branch |
| UP842202 | Fish Barrier | 5 | 1 | 2 | 148865.87166 | 418688.29636 | Horsepen Branch |
| UP842203 | Pipe Outfall | 5 | 1 | 1 | 148803.36824 | 418752.53599 | Horsepen Branch |
| UP842204 | Pipe Outfall | 3 | 3 | 1 | 148802.21077 | 418750.22104 | Horsepen Branch |
| UP842205 | Pipe Outfall | 5 | 1 | 1 | 148800.47457 | 418753.11472 | Horsepen Branch |
| UP843201 | Representative Site | | | | 149087.52729 | | Horsepen Branch |
| UP843202 | Fish Barrier | 5 | 2 | 2 | 149074.21638 | | Horsepen Branch |
| UP843203 | Fish Barrier | 5 | 1 | 2 | 149060.32673 | 418574.86424 | Horsepen Branch |
| UP843204 | Exposed Pipe | 5 | 3 | 2 | 149056.85432 | | Horsepen Branch |
| UP843205 | Fish Barrier | 5 | 3 | 2 | 149049.90950 | | Horsepen Branch |
| UP846201 | Fish Barrier | 5 | 1 | 2 | 145661.60702 | 418982.29391 | Horsepen Branch |

| UP846202 Representative Site | Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|--|----------|---------------------|----------|----------------|--------|--------------|--------------|-----------------|
| UP846203 Pipe Outfall | | | | , | | | | |
| UP846204 Erosion | | ' | 4 | 1 | 1 | | | |
| UP846205 Fish Barrier | | ' | | 3 | 3 | | | • |
| UP847201 Pipe Outfall 5 | UP846205 | Fish Barrier | 5 | 2 | 2 | 145618.78061 | | ! |
| UP847202 Fish Barrier 5 4 1 145771.56674 418955.67209 Horsepen Branch UP849201 Pipe Outfall 3 3 2 146361.87678 418977.08530 Horsepen Branch UP849202 Punusual Condition 4 3 1 146422.63399 141998.43603 Horsepen Branch UP849203 Fish Barrier 5 2 1 146659.06403 419043.06112 Horsepen Branch UP840204 Representative Site 146689.06403 419043.06112 Horsepen Branch UP850202 Representative Site 146882.73858 419058.66698 Horsepen Branch UP851102 Representative Site 147631.62210 419278.87020 Horsepen Branch UP853101 Inadequate Buffer 4 5 1 1476631.7934 419240.98861 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.7634 419240.98861 Horsepen Branch UP853102 Fish Barrier 5 2 1 1476651.8757 | | | 5 | 1 | 3 | | | |
| UP849201 Pipe Outfall 3 3 2 146361.87678 418977.08530 Horsepen Branch UP849202 Unusual Condition 4 3 1 146422.64399 418988.49850 Horsepen Branch UP849204 Representative Site 1 146569.06403 419043.06112 Horsepen Branch UP849207 Fish Barrier 5 2 3 146886.78973 419057.52951 Horsepen Branch UP850201 Fish Barrier 5 2 3 146886.78973 419057.52951 Horsepen Branch UP850201 Fish Barrier 5 2 3 146886.78986 419058.68886 Horsepen Branch UP851101 Inadequate Buffer 5 1 1 146924.98626 418950.46347 Horsepen Branch UP851102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP851102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP853101 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853101 Fipe Outfall 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853101 Pipe Outfall 5 2 1 147665.18875 419238.62856 Horsepen Branch UP854105 Representative Site 148007.22133 418997.34103 Horsepen Branch UP854105 Representative Site 148007.22133 418997.34103 Horsepen Branch UP854105 Comment UP854105 UP854 | UP847202 | | 5 | 4 | 1 | 145771.56674 | | |
| UP849203 Fish Barrier 5 2 1 146455.05317 418996.76230 Horsepen Branch UP849204 Representative Site 146669.06403 419043.06112 Horsepen Branch UP850202 Fish Barrier 5 2 3 146882.73858 419055.269869 Horsepen Branch UP851101 Inadequate Buffer 5 1 1 146924.98626 418936.46808 Horsepen Branch UP851101 Inadequate Buffer 4 5 1 1 146924.98626 418936.44854 Horsepen Branch UP853101 Inadequate Buffer 4 5 1 1476873.162210 418924.098861 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853103 Forsion 3 3 4 147756.52893 419063.31686 Horsepen Branch UP853101 Pipe Outfall 5 2 1 147661.71634 419223.6265 Horsepen Branch UP863102 | UP849201 | Pipe Outfall | 3 | 3 | 2 | 146361.87678 | | |
| UP849203 Fish Barrier 5 2 1 146455.05317 418996.76230 Horsepen Branch UP849204 Representative Site 146660.06403 419043.06112 Horsepen Branch UP850201 Fish Barrier 5 2 3 146882.73858 419055.25951 Horsepen Branch UP851101 Inadequate Buffer 5 1 1 146924.98626 419956.46347 Horsepen Branch UP851102 Representative Site 1 14761.71936 419389.14485 Horsepen Branch UP853102 Inadequate Buffer 4 5 1 147661.71634 419240.98861 Horsepen Branch UP853103 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853103 Fish Barrier 5 2 1 147661.71634 41923.02658 Horsepen Branch UP854103 Representative Site 1 148065.18876 419223.62658 Horsepen Branch UP854104 Fish Barrier 5 1 4 | UP849202 | Unusual Condition | 4 | 3 | 1 | 146422.64399 | 418998.49850 | Horsepen Branch |
| UP850201 Fish Barrier 5 2 3 146886.78973 419057.52951 Horsepen Branch UP850202 Representative Site 146882.73858 419058.68698 Horsepen Branch UP851101 Inadequate Buffer 5 1 146924.98626 418950.46347 Horsepen Branch UP851102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP853101 Inadequate Buffer 4 5 1 147661.71634 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853103 Forsion 3 3 4 147756.62893 419063.13686 Horsepen Branch UP853104 Pipe Outfall 5 2 1 147665.18875 419223.62655 Horsepen Branch UP854103 Fish Barrier 5 1 4 148004.25219 418993.86602 Horsepen Branch UP852201 Pipe Outfall 3 3 1 148775.20312 418952.862007 <td></td> <td>Fish Barrier</td> <td>5</td> <td>2</td> <td>1</td> <td>146455.05317</td> <td></td> <td></td> | | Fish Barrier | 5 | 2 | 1 | 146455.05317 | | |
| UP850201 Fish Barrier 5 2 3 146886.78973 419057.52951 Horsepen Branch UP850202 Representative Site 146882.73858 419058.68698 Horsepen Branch UP851101 Inadequate Buffer 5 1 146924.98626 418950.46347 Horsepen Branch UP851102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP853101 Inadequate Buffer 4 5 1 147661.71634 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853103 Forsion 3 3 4 147756.62893 419063.13686 Horsepen Branch UP853104 Pipe Outfall 5 2 1 147665.18875 419223.62655 Horsepen Branch UP854103 Fish Barrier 5 1 4 148004.25219 418993.86602 Horsepen Branch UP852201 Pipe Outfall 3 3 1 148775.20312 418952.862007 <td>UP849204</td> <td>Representative Site</td> <td></td> <td></td> <td></td> <td>146569.06403</td> <td></td> <td></td> | UP849204 | Representative Site | | | | 146569.06403 | | |
| UP850202 Representative Site 1 146882.73858 419058.68698 Horsepen Branch UP851101 Inadequate Buffer 5 1 1 146924.98626 418950.46347 Horsepen Branch UP851102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP853102 Inadequate Buffer 4 5 1 147631.62210 419276.87020 Horsepen Branch UP853103 Fish Barrier 5 2 1 147661.71634 419240.98661 Horsepen Branch UP853103 Pipe Outfall 5 2 1 147665.18875 419223.262655 Horsepen Branch UP854103 Representative Site 148059.988625 419004.28866 Horsepen Branch UP854104 Fish Barrier 5 1 4 148007.22133 418997.34103 Horsepen Branch UP854105 Comment 148059.88625 419004.28866 Horsepen Branch UP852010 Inadequate Buffer 4 3 1 148775.20312 418993.86622 Horsepen Branch UP860201 Inadequate Buffer 4 3 1 148775.20312 419526.88386 Horsepen Branch UP8602021 Inadequate Buffer 4 3 1 145775.20312 | | | 5 | 2 | 3 | 146886.78973 | | |
| UP851101 Inadequate Buffer 5 1 1 146924.98626 418950.46347 Horsepen Branch UP853102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.71634 419224.98861 Horsepen Branch UP853103 Erosion 3 3 4 147756.62893 419063.31686 Horsepen Branch UP853104 Pipe Outfall 5 2 1 147665.18875 419223.62656 Horsepen Branch UP854104 Ripe Santalive Site 148059.88625 419004.28586 Horsepen Branch UP854105 Fish Barrier 5 1 4 148007.22133 418997.34103 Horsepen Branch UP852101 Horsepen Branch 148042.52419 418993.86862 Horsepen Branch UP862021 Inade Justine Buffer 4 3 1 14877.20312 418956.8256 Horsepen Branch UP862021 Inje Outfall 3 3 1 14537.80734 4195 | | | | | | | | |
| UP851102 Representative Site 147147.79936 419389.14485 Horsepen Branch UP853101 Inadequate Buffer 4 5 1 147631.62210 419276.87020 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853103 Erosion 3 3 4 147756.62893 419063.31686 Horsepen Branch UP854103 Representative Site 148059.88625 419023.62655 Horsepen Branch UP854104 Fish Barrier 5 1 4 148097.2213 418997.34103 Horsepen Branch UP854105 Comment 148042.52419 418993.8682 Horsepen Branch UP857201 Inadequate Buffer 4 3 1 148752.0312 418956.82956 Horsepen Branch UP859201 Pipe Outfall 3 3 1 148752.0312 418958.8626 Horsepen Branch UP860201 Junsual Condition 4 3 1 148758.9932.7 419526.8020 | UP851101 | | 5 | 1 | 1 | 146924.98626 | | |
| UP853101 Inadequate Buffer 4 5 1 147631.62210 419276.87020 Horsepen Branch UP853102 Fish Barrier 5 2 1 147661.71634 419240.98861 Horsepen Branch UP853103 Erosion 3 3 4 147756.62893 419063.31686 Horsepen Branch UP854103 Pipe Outfall 5 2 1 147666.18876 419204.28586 Horsepen Branch UP854103 Representative Site 1 4 148007.22133 418997.34103 Horsepen Branch UP854105 Comment 4 3 1 148775.20312 418993.88662 Horsepen Branch UP857201 Inadequate Buffer 4 3 1 148775.20312 418956.82966 Horsepen Branch UP860201 Unusual Condition 4 3 2 14546.7030 419526.8386 Horsepen Branch UP860202 Pipe Outfall 3 3 2 145578.07622 419503.73445 Horsepen Branch UP860202 | | • | | | | | | |
| UP853102 Fish Barrier 5 | | ' | 4 | 5 | 1 | | | |
| UP853103 Erosion 3 3 4 147756.62893 419063.31686 Horsepen Branch UP854103 Representative Site 148059.88625 419004.28586 Horsepen Branch UP854104 Fish Barrier 5 1 4 14807.22133 418997.34103 Horsepen Branch UP854105 Comment 148042.52419 418993.86862 Horsepen Branch UP857201 Inadequate Buffer 4 3 1 148775.20312 418956.82956 Horsepen Branch UP859201 Pipe Outfall 3 3 1 145378.99127 419528.62007 Horsepen Branch UP860201 Unusual Condition 4 3 2 145399.82574 419528.63007 Horsepen Branch UP860202 Pipe Outfall 3 3 2 145546.70330 419536.38366 Horsepen Branch UP860202 Pipe Outfall 3 3 2 145568.6305 419526.88366 Horsepen Branch UP860202 Pipe Outfall 5 1 1 145604.69805 419503.73445 Horsepen Branch UP860204 Pipe Outfall 3 3 1 145572.28887 419426.76264 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145572.28887 419426.76264 Horsepen Branch UP860206 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147315.83145 419583.94429 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862105 Erosion 1 5 4 147593.79620 419641.47073 Horsepen Branch UP862107 Representative Site 147581.35001 419645.40039 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419613.57805 Horsepen Branch UP864401 Fish Barrier 5 2 1 148129.8205 419613.57805 Horsepen Branch UP864401 Fish Barrier 5 2 1 148129.8205 41962.46918 Horsepen Branch UP864401 Fish Barrier 5 2 1 148129.8206 41962.46918 Horsepen Branch UP864401 Fish Barrier 5 2 1 148139.8407 41962.46918 Horsepen Branch UP864401 Fish Barrier 5 2 1 148139.8407 41962.46918 Horsepen Branch UP864401 Fish Barrier 5 | | • | 5 | 2 | 1 | | | ' |
| UP851104 Pipe Outfall 5 | UP853103 | Erosion | 3 | 3 | 4 | 147756.62893 | | |
| UP854103 Representative Site | | | 5 | 2 | 1 | | | |
| UP854104 | | • | | | | | | |
| UP854105 Comment 148042.52419 418993.86862 Horsepen Branch UP857201 Inadequate Buffer 4 3 1 148775.20312 418956.82956 Horsepen Branch UP869201 Pipe Outfall 3 3 1 145378.99127 419528.62007 Horsepen Branch UP860201 Unusual Condition 4 3 2 145399.82574 419526.8386 Horsepen Branch UP860202 Pipe Outfall 3 2 145378.07622 419536.14363 Horsepen Branch UP860203 Fish Barrier 5 2 2 145578.07622 419503.73445 Horsepen Branch UP860204 Pipe Outfall 5 1 1 145604.69805 419624.69014 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862104 Pipe Outfall 3 3 1 147239.37633 419556.68122 Horsepen Branch UP862105 Fipe Outfall 3 | | | 5 | 1 | 4 | 148007.22133 | | |
| UP857201 Inadequate Buffer 4 3 1 148775.20312 418956.82956 Horsepen Branch UP859201 Pipe Outfall 3 3 1 145378.99127 419528.62007 Horsepen Branch UP860201 Unusual Condition 4 3 2 145399.82574 419526.88386 Horsepen Branch UP860202 Pipe Outfall 3 3 2 145446.70330 419536.14363 Horsepen Branch UP860203 Fish Barrier 5 2 2 145578.07622 419503.73445 Horsepen Branch UP860205 Pipe Outfall 5 1 1 1456804.69905 419624.69014 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145587.33599 4196969.83149 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 3 3 1 14723.33973 419556.68122 Horsepen Branch | | Comment | | | | | | |
| UP859201 Pipe Outfall 3 3 1 145378.99127 419528.62007 Horsepen Branch UP860201 Unusual Condition 4 3 2 145399.82574 419526.88386 Horsepen Branch UP860202 Pipe Outfall 3 2 145446.70330 419536.14363 Horsepen Branch UP860203 Fish Barrier 5 2 2 145578.07622 419503.73445 Horsepen Branch UP860205 Pipe Outfall 5 1 1 145604.69805 419624.69014 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145587.33599 419669.83149 Horsepen Branch UP862101 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862104 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862107 | | Inadequate Buffer | 4 | 3 | 1 | | | ' |
| UP860201 Unusual Condition 4 3 2 145399.82574 419526.88386 Horsepen Branch UP860202 Pipe Outfall 3 3 2 145446.70330 419536.14363 Horsepen Branch UP860203 Fish Barrier 5 2 2 145578.07622 419503.73445 Horsepen Branch UP860204 Pipe Outfall 5 1 1 145604.69805 419624.69014 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145587.33599 419669.83149 Horsepen Branch UP862101 Pipe Outfall 3 3 1 145587.33599 419669.83149 Horsepen Branch UP862101 Pipe Outfall 3 3 1 1475242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419545.42039 Horsepen Branch < | | | 3 | 3 | 1 | | | |
| UP860202 Pipe Outfall 3 3 2 145446.70330 419536.14363 Horsepen Branch UP860203 Fish Barrier 5 2 2 145578.07622 419503.73445 Horsepen Branch UP860204 Pipe Outfall 5 1 1 145604.69805 419624.69014 Horsepen Branch UP860206 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419545.42039 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP863101 Erosion 1< | | • | 4 | | 2 | | | |
| UP860203 Fish Barrier 5 2 2 145578.07622 419503.73445 Horsepen Branch UP860204 Pipe Outfall 5 1 1 145604.69805 419624.69014 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145587.33599 419669.83149 Horsepen Branch UP862101 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 1474373.2990 419694.18190 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP864001 Exposed Pipe 3< | | Pipe Outfall | 3 | 3 | 2 | | | |
| UP860204 Pipe Outfall 5 1 1 145604.69805 419624.69014 Horsepen Branch UP860205 Pipe Outfall 3 3 1 145587.33599 419669.83149 Horsepen Branch UP860206 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419614.17073 Horsepen Branch UP864401 Fish Barrier 5< | | • | 5 | 2 | | | | |
| UP860205 Pipe Outfall 3 3 1 145587.33599 419669.83149 Horsepen Branch UP860206 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864402 Inadequate Buffer 5 2 1 | | | | 1 | 1 | | | |
| UP860206 Pipe Outfall 3 3 1 145572.28887 419426.76265 Horsepen Branch UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP862107 Inadequate Buffer 5 5 1 147512.00700 419465.40921 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 | | ' | 3 | 3 | 1 | | | • |
| UP862101 Pipe Outfall 3 3 1 147242.33971 419556.68122 Horsepen Branch UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP862107 Inadequate Buffer 5 5 1 147512.00700 419465.40921 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419614.17073 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 <td></td> <td>•</td> <td>3</td> <td>3</td> <td>1</td> <td></td> <td></td> <td></td> | | • | 3 | 3 | 1 | | | |
| UP862104 Pipe Outfall 5 1 1 147239.37633 419545.42039 Horsepen Branch UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP862107 Inadequate Buffer 5 5 1 147512.00700 419465.40921 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 <td>UP862101</td> <td>Pipe Outfall</td> <td>3</td> <td>3</td> <td>1</td> <td>147242.33971</td> <td></td> <td></td> | UP862101 | Pipe Outfall | 3 | 3 | 1 | 147242.33971 | | |
| UP862105 Erosion 1 5 3 147315.83145 419583.94429 Horsepen Branch UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP862107 Inadequate Buffer 5 5 1 147512.00700 419465.40921 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP865401 Pipe Outfall 3 3 1 <td>UP862104</td> <td>Pipe Outfall</td> <td>5</td> <td>1</td> <td>1</td> <td>147239.37633</td> <td>419545.42039</td> <td>Horsepen Branch</td> | UP862104 | Pipe Outfall | 5 | 1 | 1 | 147239.37633 | 419545.42039 | Horsepen Branch |
| UP862106 Representative Site 147437.32990 419694.18190 Horsepen Branch UP862107 Inadequate Buffer 5 5 1 147512.00700 419465.40921 Horsepen Branch UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 <td< td=""><td></td><td></td><td>1</td><td>5</td><td>3</td><td>147315.83145</td><td></td><td></td></td<> | | | 1 | 5 | 3 | 147315.83145 | | |
| UP863101 Erosion 1 5 4 147593.79620 419713.14751 Horsepen Branch UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865402 Pipe Outfall | | Representative Site | | | | | 419694.18190 | Horsepen Branch |
| UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier | UP862107 | Inadequate Buffer | 5 | 5 | 1 | 147512.00700 | 419465.40921 | Horsepen Branch |
| UP863102 Representative Site 147581.35001 419614.17073 Horsepen Branch UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier | UP863101 | Erosion | 1 | 5 | 4 | 147593.79620 | 419713.14751 | Horsepen Branch |
| UP864001 Exposed Pipe 3 3 1 147940.47386 419855.60553 Horsepen Branch UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148431.83916 419559.05192 Horsepen Branch | | Representative Site | | | | | | |
| UP864401 Fish Barrier 5 2 1 148128.98205 419613.57805 Horsepen Branch UP864402 Inadequate Buffer 3 2 1 148109.42376 419622.46818 Horsepen Branch UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148431.83916 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch | UP864001 | | 3 | 3 | 1 | | | |
| UP864403 Pipe Outfall 3 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | | Fish Barrier | 5 | 2 | 1 | | | |
| UP864403 Pipe Outfall 3 1 147989.11066 419629.58029 Horsepen Branch UP864404 Fish Barrier 4 3 1 147962.44027 419812.71698 Horsepen Branch UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | UP864402 | Inadequate Buffer | 3 | 2 | 1 | 148109.42376 | 419622.46818 | Horsepen Branch |
| UP864405 Pipe Outfall 3 3 1 147962.44027 419812.71698 Horsepen Branch UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | | Pipe Outfall | 3 | 3 | 1 | 147989.11066 | 419629.58029 | Horsepen Branch |
| UP865401 Pipe Outfall 3 3 1 148430.06114 419557.27389 Horsepen Branch UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | UP864404 | Fish Barrier | 4 | 3 | 1 | 147962.44027 | 419812.71698 | Horsepen Branch |
| UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | UP864405 | Pipe Outfall | 3 | 3 | 1 | 147962.44027 | 419812.71698 | Horsepen Branch |
| UP865402 Pipe Outfall 3 3 1 148430.06114 419559.05192 Horsepen Branch UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | | | 3 | 3 | 1 | | | ' |
| UP865403 Fish Barrier 5 2 1 148435.98789 419559.05192 Horsepen Branch UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | | | 3 | 3 | 1 | | | |
| UP865404 Inadequate Buffer 4 2 1 148431.83916 419559.05192 Horsepen Branch UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | | • | 5 | 2 | 1 | 148435.98789 | | |
| UP865405 Channel Alteration 5 2 1 148431.24649 419557.86657 Horsepen Branch | | Inadequate Buffer | | | 1 | | | - |
| | | • | 5 | | 1 | | | |
| | | | | | 1 | | | |
| UP865407 Fish Barrier 5 3 2 148345.90123 419578.01753 Horsepen Branch | | | | | | | | |
| UP866401 Erosion 3 3 2 148577.34842 419581.21203 Horsepen Branch | | | 3 | 3 | 2 | | | |

| UP886402 Fish Barrier | Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|--|----------|---------------------------------------|----------|----------------|--------|--------------|--------------|-----------------|
| UP869302 | | | | · | | | | |
| UP869301 Inadequate Buffer | | | | | | | | |
| UP883002 Comment | UP869301 | Inadequate Buffer | 1 | 1 | 3 | 147153.54415 | | · |
| UP871107 Pipe Outfall | | ' | | | | | | |
| UP871108 | | | 5 | 1 | 2 | | | |
| UP87110 Representative Site | | • | | | 2 | | | |
| UP871110 Fish Barrier | | ' | | | | | | |
| UP871111 Inadequate Buffer 3 | | • | 5 | 1 | 2 | | | |
| UP871301 Representative Site 3 | | | 3 | 1 | 1 | | | |
| UP871302 Erosion 3 3 3 147579.53283 420100.11057 Horsepen Branch UP871303 Pipe Outfall 3 3 3 147723.76874 419938.16878 Horsepen Branch UP871305 Pipe Outfall 5 1 3 147787.95816 419933.11687 Horsepen Branch UP871306 Pipe Outfall 5 1 3 147860.22428 419937.67013 Horsepen Branch UP871306 Fish Barrier 5 1 1 147824.31493 419957.07104 Horsepen Branch UP871306 Fish Barrier 5 1 1 147824.31493 419957.07104 Horsepen Branch UP872301 Erosion 4 3 3 147860.22428 419931.93510 Horsepen Branch UP873301 Pipe Outfall 5 1 1 146516.01744 420638.95543 Horsepen Branch UP875301 Pipe Outfall 5 1 1 146516.01744 420638.95543 Horsepen Branch UP875303 Inadequate Buffer 5 2 1 146518.1140 420638.95543 Horsepen Branch UP875303 Inadequate Buffer 5 2 1 146518.1140 420638.95694 Horsepen Branch UP876301 Channel Alteration 5 2 2 146732.67055 420644.18959 Horsepen Branch UP876302 Channel Alteration 5 3 4 146782.94364 420438.14369 Horsepen Branch UP876303 Channel Alteration 5 3 4 146782.94364 420438.14369 Horsepen Branch UP876304 Fish Barrier 5 3 2 146888.87624 420438.14369 Horsepen Branch UP876305 Channel Alteration 5 1 2 147967.95235 420541.32498 Horsepen Branch UP876305 Channel Alteration 5 1 2 147967.95235 420541.32498 Horsepen Branch UP876304 Fish Barrier 5 1 2 147967.95235 420518.45466 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP880401 Pipe Outfall 3 3 1 14794.01278 420621.39471 Horsepen Branch UP880401 Fish Barrier 5 1 2 147967.95235 4207027.79924 Horsepen Branch UP881401 Trash Dumping 5 1 3 148237.87100 420714.75903 Horsepen Branch UP884041 Fish Barrier 5 2 148805.95008 420678.25419 Horsepen Branch UP884041 Fish Barrier 5 2 148805. | | | | | | 147556.79024 | | |
| UP871303 | | • | 3 | 3 | 3 | 147579.53283 | | |
| UP871305 | | | 3 | 3 | 3 | | | |
| UP871305 Pipe Outfall | | • | | | | | | |
| UP871306 Fish Barrier 5 | | Pipe Outfall | 5 | 1 | 3 | | | |
| UP872301 Erosion | | • | 5 | 1 | 1 | | | |
| UP872401 Pipe Outfall | | | 4 | 3 | 3 | | | |
| UP875302 Channel Alteration 5 | | | 1 | | 2 | | | |
| UP875302 Channel Alteration 5 2 1 146519.00989 420636.95543 Horsepen Branch UP875303 Inadequate Buffer 5 2 2 146518.41140 420636.35694 Horsepen Branch UP876302 Channel Alteration 5 2 2 146732.67055 420544.18959 Horsepen Branch UP876303 Pipe Outfall 3 3 2 146782.94364 420483.14369 Horsepen Branch UP876304 Fish Barrier 5 3 2 146882.89135 420410.72649 Horsepen Branch UP876305 Channel Alteration 5 1 2 146888.87624 420410.72649 Horsepen Branch UP880401 Pipe Outfall 3 3 1 14794.01278 420621.39471 Horsepen Branch UP881401 Trash Dumping 5 1 3 1427951.79314 420622.39471 Horsepen Branch UP881402 Channel Alteration 5 3 148216.32639 420702.78924 Horsepen Branch | | • | 5 | 1 | 1 | | | |
| UP875303 Inadequate Buffer 5 2 2 146518.41140 420636.35694 Horsepen Branch UP876302 Channel Alteration 5 2 2 146732.67055 420544.18959 Horsepen Branch UP876302 Channel Alteration 5 3 4 146782.24637 420532.81830 Horsepen Branch UP876303 Pipe Outfall 3 3 2 146882.89135 420411.32498 Horsepen Branch UP876305 Channel Alteration 5 1 2 146888.87624 420410.72649 Horsepen Branch UP880104 Fish Barrier 5 1 2 147967.95235 420518.45456 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP880401 Tipe Coutfall 3 3 1 147951.79314 420625.58413 Horsepen Branch UP881402 Channel Alteration 5 3 3 148216.32539 420702.78924 Horsepen Branch | | ' | 5 | 2 | 1 | | | · |
| UP876301 Channel Alteration 5 2 2 146732.67055 420544.18959 Horsepen Branch UP876302 Channel Alteration 5 3 4 146742.24637 420532.81830 Horsepen Branch UP876303 Pipe Outfall 3 3 2 146782.94364 420431.32498 Horsepen Branch UP876305 Channel Alteration 5 1 2 146888.87624 420411.32498 Horsepen Branch UP880104 Fish Barrier 5 1 2 147967.95235 420518.45456 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881402 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch | | | | | 2 | | | |
| UP876302 Channel Alteration 5 3 4 146742.24637 420532.81830 Horsepen Branch UP876303 Pipe Outfall 3 3 2 146782.94364 420483.14369 Horsepen Branch UP876304 Fish Barrier 5 3 2 146888.89624 420411.32498 Horsepen Branch UP876305 Channel Alteration 5 1 2 146888.87624 420411.32498 Horsepen Branch UP880401 Fish Barrier 5 1 2 147967.95235 420518.45456 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.7593 Horsepen Branch UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch | | • | 5 | | 2 | | | |
| UP876303 | | | 5 | 3 | 4 | | | |
| UP876304 Fish Barrier 5 3 2 146882.89135 420411.32498 Horsepen Branch UP876305 Channel Alteration 5 1 2 146888.87624 420410.72649 Horsepen Branch UP880104 Fish Barrier 5 1 2 147967.95235 420518.45456 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP880402 Erosion 4 2 1 147951.79314 420625.58413 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 1 148305.50028 420685.43306 Horsepen Branch UP881401 Iradequate Buffer 4 1 1 148305.50028 420675.78169 Horsepen Branch <t< td=""><td></td><td></td><td>3</td><td>3</td><td>2</td><td></td><td></td><td></td></t<> | | | 3 | 3 | 2 | | | |
| UP876305 Channel Alteration 5 1 2 148888.87624 420410.72649 Horsepen Branch UP880104 Fish Barrier 5 1 2 147967.95235 420518.45456 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147941.7921 420621.39471 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148476.69087 420705.78169 Horsepen Branch UP883402 Fish Barrier 5 2 3 148726.83671 421019.98854 Horsepen Branch <t< td=""><td></td><td>•</td><td></td><td></td><td>2</td><td></td><td></td><td>·</td></t<> | | • | | | 2 | | | · |
| UP880104 Fish Barrier 5 1 2 147967.95235 420518.45456 Horsepen Branch UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883402 Fish Barrier 5 3 2 148709.84052 429961.93509 Horsepen Branch UP885401 Exposed Pipe 5 2 3 148726.83671 421019.98854 Horsepen Branch | | | 5 | 1 | 2 | | | |
| UP880401 Pipe Outfall 3 3 1 147944.01278 420621.39471 Horsepen Branch UP880402 Erosion 4 2 1 147951.79314 420625.58413 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP883401 Fish Barrier 5 3 2 148467.69087 420705.78169 Horsepen Branch UP883402 Fish Barrier 5 3 2 148794.83652 420961.93509 Horsepen Branch UP885401 Exposed Pipe 5 2 3 148726.83671 421019.98854 Horsepen Branch | | | 5 | 1 | 2 | | | |
| UP880402 Erosion 4 2 1 147951.79314 420625.58413 Horsepen Branch UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP885401 Exposed Pipe 5 2 3 148726.83671 421019.98854 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch | UP880401 | | | 3 | 1 | | | |
| UP881401 Trash Dumping 5 1 3 148216.32539 420702.78924 Horsepen Branch UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP883402 Fish Barrier 5 2 3 148726.83671 421119.98854 Horsepen Branch UP885401 Exposed Pipe 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885402 Fish Barrier 5 2 4 148847.51363 421350.35461 Horsepen Branch UP885403 Representative Site 1 148821.39801 421360.52893 Horsepen Branch <td></td> <td>•</td> <td>4</td> <td>2</td> <td>1</td> <td></td> <td></td> <td>·</td> | | • | 4 | 2 | 1 | | | · |
| UP881402 Channel Alteration 5 3 3 148237.87100 420714.75903 Horsepen Branch UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP883402 Fish Barrier 5 2 3 148726.83671 421019.98854 Horsepen Branch UP885401 Exposed Pipe 5 2 4 148830.37535 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421350.352893 Horsepen Branch | | | 5 | 1 | 3 | | | |
| UP881403 Exposed Pipe 4 1 2 148305.50028 420685.43306 Horsepen Branch UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP883402 Fish Barrier 5 2 3 148726.83671 421019.98854 Horsepen Branch UP885401 Exposed Pipe 5 2 4 148848.92852 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe | | | 5 | 3 | 3 | | | |
| UP881404 Inadequate Buffer 4 1 1 148304.90179 420678.25119 Horsepen Branch UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP885402 Fish Barrier 5 2 3 148726.83671 421019.98854 Horsepen Branch UP885401 Exposed Pipe 5 2 4 148830.37535 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe | UP881403 | Exposed Pipe | 4 | 1 | 2 | 148305.50028 | | |
| UP882401 Erosion 2 3 2 148467.69087 420705.78169 Horsepen Branch UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP883402 Fish Barrier 5 2 3 148726.83671 421019.98854 Horsepen Branch UP885401 Exposed Pipe 5 2 4 148830.37535 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 | UP881404 | Inadequate Buffer | 4 | 1 | 1 | 148304.90179 | | |
| UP883401 Fish Barrier 5 3 2 148709.48052 420961.93509 Horsepen Branch UP883402 Fish Barrier 5 2 3 148726.83671 421019.98854 Horsepen Branch UP885401 Exposed Pipe 5 2 4 148830.37535 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885409 Exposed Pipe | | | 2 | 3 | 2 | | 420705.78169 | Horsepen Branch |
| UP885401 Exposed Pipe 5 2 4 148830.37535 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148931.52003 421634.63700 Horsepen Branch UP886401 Fish Barrier 5 | | Fish Barrier | 5 | 3 | 2 | 148709.48052 | 420961.93509 | Horsepen Branch |
| UP885401 Exposed Pipe 5 2 4 148830.37535 421256.39180 Horsepen Branch UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148931.52003 421634.63700 Horsepen Branch UP886401 Fish Barrier 5 | UP883402 | Fish Barrier | 5 | 2 | 3 | 148726.83671 | 421019.98854 | Horsepen Branch |
| UP885402 Fish Barrier 5 2 4 148848.92852 421350.35461 Horsepen Branch UP885403 Representative Site 148821.39801 421360.52893 Horsepen Branch UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148904.58802 421634.63700 Horsepen Branch UP886401 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886402 Channel Alteration 5 <td></td> <td></td> <td>5</td> <td>2</td> <td>4</td> <td></td> <td></td> <td></td> | | | 5 | 2 | 4 | | | |
| UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148916.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 </td <td>UP885402</td> <td>Fish Barrier</td> <td>5</td> <td>2</td> <td>4</td> <td>148848.92852</td> <td></td> <td></td> | UP885402 | Fish Barrier | 5 | 2 | 4 | 148848.92852 | | |
| UP885404 Erosion 1 5 2 148837.51363 421353.37258 Horsepen Branch UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 148804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148916.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 </td <td>UP885403</td> <td>Representative Site</td> <td></td> <td></td> <td></td> <td>148821.39801</td> <td>421360.52893</td> <td>Horsepen Branch</td> | UP885403 | Representative Site | | | | 148821.39801 | 421360.52893 | Horsepen Branch |
| UP885405 Trash Dumping 4 2 4 148808.23125 421420.37785 Horsepen Branch UP885406 Exposed Pipe 5 1 1 48804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 1 48904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 | UP885404 | Erosion | 1 | 5 | 2 | 148837.51363 | | |
| UP885406 Exposed Pipe 5 1 1 48804.64031 421486.81016 Horsepen Branch UP885407 Fish Barrier 5 2 1 148816.61010 421492.79505 Horsepen Branch UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 1 148904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | UP885405 | | 4 | 2 | 4 | | | |
| UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | | 5 | 1 | 1 | | | |
| UP885408 Unusual Condition 3 2 1 148816.61010 421495.18901 Horsepen Branch UP885409 Exposed Pipe 2 1 148904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | · · · · · · · · · · · · · · · · · · · | 5 | 2 | 1 | | | |
| UP885409 Exposed Pipe 2 1 1 48904.58802 421634.63700 Horsepen Branch UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | | 3 | 2 | 1 | | | |
| UP885410 Fish Barrier 5 2 1 148931.52003 421649.59923 Horsepen Branch UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | | | | 1 | | | • |
| UP886401 Fish Barrier 5 2 3 148946.48227 421705.85722 Horsepen Branch UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | ' | | 2 | 1 | | | |
| UP886402 Channel Alteration 5 3 2 148926.13363 421807.00190 Horsepen Branch UP886403 Inadequate Buffer 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | | | | | | | |
| UP886403 Inadequate Buffer 3 3 1 148936.90644 421812.38831 Horsepen Branch UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | | | | | | | • |
| UP886404 Pipe Outfall 5 1 2 148915.95931 421899.16925 Horsepen Branch | | | | | | | | |
| | | | | | | | | · |
| | UP886405 | | 5 | 3 | | 148949.47471 | | |

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|----------|--------------|--------------|-------------------|
| UP886406 | Trash Dumping | 3 | 2 | 2 | 149011.11910 | | Horsepen Branch |
| UP886407 | Pipe Outfall | 5 | 1 | 1 | 148989.57349 | | Horsepen Branch |
| UP888401 | Trash Dumping | 3 | 2 | 1 | 149134.44529 | | Horsepen Branch |
| UP888402 | | 3 | 2 | 1 | 149139.83170 | | Horsepen Branch |
| | Representative Site | | | | 149121.27853 | | Horsepen Branch |
| UP888404 | Comment | | | | 149190.70328 | | Horsepen Branch |
| | Pipe Outfall | 3 | 3 | 2 | 149229.00660 | | Horsepen Branch |
| UP900301 | Pipe Outfall | 5 | 1 | 1 | 136737.28663 | | Mount Nebo Branch |
| UP900302 | | 4 | 3 | 2 | 136736.65672 | | Mount Nebo Branch |
| | Trash Dumping | 3 | 3 | 2 | 136730.35764 | | Mount Nebo Branch |
| UP900304 | Pipe Outfall | 3 | 3 | 2 | 136586.73850 | | Mount Nebo Branch |
| UP900305 | Fish Barrier | 4 | 4 | 2 | 136584.21887 | | Mount Nebo Branch |
| UP900306 | | 4 | 2 | 2 | 136579.80951 | | Mount Nebo Branch |
| UP901301 | Erosion | 2 | 4 | 4 | 136543.90472 | | Mount Nebo Branch |
| | Inadequate Buffer | 4 | 2 | 4 | 136453.82780 | | Mount Nebo Branch |
| | Representative Site | | _ | | 136355.29460 | | Mount Nebo Branch |
| UP901304 | Erosion | 3 | 3 | 4 | 136348.65773 | | Mount Nebo Branch |
| UP902301 | Fish Barrier | 5 | 1 | 4 | 136312.70800 | | Mount Nebo Branch |
| UP903301 | Inadequate Buffer | 3 | 3 | 2 | 136152.31691 | | Mount Nebo Branch |
| | Inadequate Buffer | 5 | 2 | 2 | 136119.68562 | | Mount Nebo Branch |
| UP903303 | Erosion | 3 | 3 | 3 | 136120.23870 | | Mount Nebo Branch |
| UP903304 | Fish Barrier | 5 | 2 | 2 | 136146.78619 | | Mount Nebo Branch |
| UP904101 | Inadequate Buffer | 4 | 1 | 2 | 136447.10467 | | Mount Nebo Branch |
| UP905301 | Erosion | 4 | 3 | 3 | 136194.35044 | | Mount Nebo Branch |
| | Representative Site | | Ŭ | | 136195.45659 | | Mount Nebo Branch |
| UP905303 | • | 5 | 3 | 5 | 136163.37837 | | Mount Nebo Branch |
| | Trash Dumping | 3 | 2 | 2 | 136207.62419 | | Mount Nebo Branch |
| | Inadequate Buffer | 4 | 2 | 2 | 136219.79179 | | Mount Nebo Branch |
| UP906101 | Representative Site | · | | | 136301.09348 | | Mount Nebo Branch |
| UP906102 | Construction | 5 | | | 136480.28904 | | Mount Nebo Branch |
| UP906103 | Unusual Condition | 4 | 1 | 2 | 136415.02645 | | Mount Nebo Branch |
| UP907101 | Inadequate Buffer | 5 | 1 | 1 | 136214.26106 | | Mount Nebo Branch |
| UP907102 | Fish Barrier | 3 | 5 | 1 | 136205.41190 | | Mount Nebo Branch |
| UP907102 | Unusual Condition | 2 | 5 | 2 | 136205.41190 | | Mount Nebo Branch |
| | Pipe Outfall | 2 | 4 | 1 | 136199.32810 | | Mount Nebo Branch |
| UP907104 | Erosion | 2 | 4 | 2 | 136211.49570 | | Mount Nebo Branch |
| UP908101 | Representative Site | _ | | _ | 136113.60182 | | Mount Nebo Branch |
| | Inadequate Buffer | 5 | 1 | 1 | 136181.07670 | | Mount Nebo Branch |
| UP909101 | Fish Barrier | 5 | 1 | 1 | 136016.26103 | | Mount Nebo Branch |
| - | Inadequate Buffer | 5 | 1 | 2 | 136087.05433 | | Mount Nebo Branch |
| UP909103 | · | 3 | 4 | 4 | 136093.13813 | | Mount Nebo Branch |
| UP909104 | Fish Barrier | 5 | 5 | 5 | 136101.98730 | | Mount Nebo Branch |
| UP910101 | Representative Site | | | | 135899.56268 | | Mount Nebo Branch |
| UP910102 | • | 5 | 3 | 1 | 135937.72470 | | Mount Nebo Branch |
| UP911101 | Erosion | 5 | 1 | 4 | 135712.62410 | | Mount Nebo Branch |
| UP911102 | | 5 | 1 | 1 | 135662.84756 | | Mount Nebo Branch |
| | Representative Site | | ' | <u>'</u> | 135760.74143 | | Mount Nebo Branch |
| UP911104 | Fish Barrier | 5 | 5 | 1 | 135760.74143 | | Mount Nebo Branch |
| UP911104 | | 5 | 5 | 1 | 135770.14367 | | Mount Nebo Branch |
| | Erosion Erosion | 2 | 5 | 4 | | | |
| UP911106 | Erosion | ۷ | J | 4 | 135814.38948 | 421300.90935 | Mount Nebo Branch |

Appendix A

| Site | Problem | Severity | Correctability | Access | Northing | Easting | Stream |
|----------|---------------------|----------|----------------|--------|--------------|--------------|-------------------|
| UP911107 | Inadequate Buffer | 4 | 3 | 1 | 135821.02636 | 427321.64119 | Mount Nebo Branch |
| UP911108 | Pipe Outfall | 3 | 1 | 1 | 135860.29452 | 427230.38419 | Mount Nebo Branch |
| UP921401 | Erosion | 4 | 2 | 3 | 135778.43976 | 427502.49597 | Mount Nebo Branch |
| UP921401 | Fish Barrier | 5 | 4 | 1 | 135804.98725 | 427377.50153 | Mount Nebo Branch |
| UP924201 | Erosion | 3 | 4 | 1 | 136813.90123 | 427615.86764 | Honey Branch |
| UP925201 | Representative Site | | | | 136909.39256 | 427629.75728 | Honey Branch |
| UP926201 | Trash Dumping | 5 | 1 | 2 | 137439.51412 | 427568.41134 | Honey Branch |
| UP926202 | Erosion | 4 | 4 | 2 | 137335.34176 | 427603.71419 | Honey Branch |
| UP926203 | Inadequate Buffer | 3 | 2 | 2 | 137463.82101 | 427545.26193 | Honey Branch |
| UP926204 | Fish Barrier | 5 | 1 | 1 | 137177.34702 | 427600.82052 | Honey Branch |
| UP928401 | Representative Site | | | | 135799.95692 | 427641.91073 | Honey Branch |
| UP928402 | Erosion | 3 | 3 | 3 | 135864.19654 | 427703.25667 | Honey Branch |
| UP929403 | Erosion | 3 | 3 | 2 | 136213.75268 | 427649.43429 | Honey Branch |
| UP929405 | Fish Barrier | 5 | 2 | 4 | 135970.10511 | 427677.79232 | Honey Branch |
| UP930404 | Fish Barrier | 5 | 1 | 1 | 136473.02611 | 427655.80037 | Honey Branch |

Appendix B

Listing of sites by problem category

| Pipe Outfall UP305401 Stormwater Concrete Pipe Right Bank 24 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP305405 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 Pipe Outfall UP616408 Stormwater Concrete Pipe Right Bank 36 Yes medium brown oily 2 4 | Pocess 2 2 2 2 2 2 2 2 1 |
|---|---|
| Pipe Outfall UP305401 Stormwater Concrete Pipe Right Bank 24 Yes clear sewage 1 4 Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP305405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 2 2 3 2 2 |
| Pipe Outfall UP305401 Stormwater Concrete Pipe Right Bank 24 Yes clear sewage 1 4 Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown sewage 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 2 2 3 2 2 |
| Pipe Outfall UP305401 Stormwater Concrete Pipe Right Bank 24 Yes Infedium brown Sewage 1 4 Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 2 2 3 2 2 |
| Pipe Outfall UP305401 Stormwater Concrete Pipe Right Bank 24 Yes Infedium brown Sewage 1 4 Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 2 2 3 2 2 |
| Pipe Outfall UP305401 Stormwater Concrete Pipe Right Bank 24 Yes clear sewage 1 4 Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe Right Bank 24 Yes dark brown sewage 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 2 2 3 2 2 |
| Pipe Outfall UP308407 Stormwater Concrete Pipe Right Bank 12 Yes medium brown rotten egg 2 4 Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 3 2 2 |
| Pipe Outfall UP309402 Stormwater Concrete Pipe Right Bank 24 Yes green fishy 2 4 Pipe Outfall UP315201 Stormwater Concrete Pipe Right Bank 24 Yes dark brown rotten egg 2 4 Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 3 2 2 |
| Pipe OutfallUP315201StormwaterConcrete PipeRight Bank24Yesdark brownrotten egg24Pipe OutfallUP320202StormwaterConcrete Pipehead of trib24Yesdark brownsewage24Pipe OutfallUP505405StormwaterConcrete PipeLeft Bank12Yesbrownoily24 | 2 |
| Pipe Outfall UP320202 Stormwater Concrete Pipe head of trib 24 Yes dark brown sewage 2 4 Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | 2 |
| Pipe Outfall UP505405 Stormwater Concrete Pipe Left Bank 12 Yes brown oily 2 4 | |
| The Satisfier of Section Statement of Section 1997 | 1 |
| Pine Outfall LIP616408 Stormwater Concrete Pine Right Bank 36 Yes medium brown foily 2 4 | ' |
| | 1 |
| Pipe Outfall UP817401 Stormwater Corrugated Metal Left Bank 24 Yes dark brown musky 2 4 | 1 |
| Pipe Outfall UP907103 Stormwater Concrete Pipe Right Bank 36 4 Yes medium brown none 2 4 | 1 |
| Pipe Outfall UP100301 Stormwater Concrete Pipe Head of Stream 48 Yes clear none 3 3 | 1 |
| Pipe Outfall UP102304 Stormwater Concrete Pipe 36 Yes clear none 3 3 | 2 |
| Pipe Outfall UP104303 Stormwater Concrete Pipe 24 Yes clear none 3 3 | 2 |
| Pipe Outfall UP104308 Stormwater Concrete Pipe Head of Stream 48 Yes clear none 3 3 | 1 |
| Pipe Outfall UP107402 Stormwater Corrugated Metal Left Bank 24 Yes clear none 3 3 | 1 |
| Pipe Outfall UP200202 Stormwater concrete pipe head of stream 36 Yes clear musty 3 3 | 2 |
| Pipe Outfall UP204201 Stormwater Concrete Pipe Right Bank 36 Yes clear none 3 3 | 1 |
| Pipe Outfall UP304204 Stormwater Concrete Pipe Right Bank 24 Yes clear none 3 3 | 2 |
| Pipe Outfall UP305402 Stormwater Concrete Pipe Right Bank 12 Yes clear none 3 3 | 1 |
| Pipe Outfall UP307202 Stormwater Concrete Pipe Right Bank 12 Yes clear none 3 3 | 2 |
| Pipe Outfall UP308405 Stormwater Concrete Pipe Right Bank 24 Yes dark brown none 3 3 | 1 |
| Pipe Outfall UP308406 Stormwater Concrete Pipe Right Bank 30 Yes dark brown none 3 3 | 1 |
| Pipe Outfall UP309101 Stormwater Concrete Pipe Right Bank 18 Yes clear none 3 3 | 1 |
| Pipe Outfall UP309102 Stormwater Concrete Pipe Left Bank 12 Yes clear none 3 3 | 1 |
| Pipe Outfall UP310201 Stormwater Concrete Pipe Right Bank 24 Yes clear none 3 3 | 2 |
| Pipe Outfall UP310203 Stormwater Concrete Pipe Left Bank 18 Yes clear none 3 3 | 2 |
| Pipe Outfall UP312102 Unknown Plastic Left Bank 8 Yes clear none 3 3 | 1 |
| Pipe Outfall UP312103 Stormwater Concrete Pipe Right Bank 36 Yes green-blue none 3 3 | 1 |
| Pipe Outfall UP312108 Stormwater Concrete Pipe Left Bank 18 Yes clear none 3 3 | 1 |
| Pipe Outfall UP312110 Stormwater Concrete Pipe Right Bank 24 Yes clear none 3 3 | 1 |
| Pipe Outfall UP312111 Stormwater Concrete Pipe Right Bank 24 Yes clear none 3 3 | 1 |
| Pipe Outfall UP312112 Stormwater Corrugated Metal Right Bank 18 Yes clear none 3 3 | 1 |
| Pipe Outfall UP312113 Unknown Concrete Pipe Right Bank 24 Yes orange none 3 3 | 1 |
| Pipe Outfall UP313201 Stormwater Concrete Pipe Right Bank 36 Yes clear none 3 3 | 2 |
| Pipe Outfall UP313203 Stormwater Concrete Pipe Left Bank 36 Yes clear none 3 3 | 2 |
| Pipe Outfall UP313204 Stormwater Concrete Pipe Right Bank 24 Yes clear none 3 3 | 2 |

| | | | | | | | _ | | / | | | |
|--------------|----------|------------------|------------------|----------------|----|--|--------|---------------|------------|------|-------|---------------|
| 1 | | | | | | | | /// | | | | |
| / | | | | | oo | | | ,xc / / | | ′ | / , | / |
| | | OutenType | | Used at Street | ζ" | on a series | and di | | | | | Access Access |
| Jen | | (all 14. | 1400 | dion | | _ete/ | ne) | 78195/ | / . | / 3 | , ki | ctar /ss |
| Problem | gite | Outte | zine Type | \ \octo | /8 | %\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | seraige Color | Odor | geve | / con | ACCES P |
| Pipe Outfall | UP314202 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP315204 | Stormwater | Concrete Pipe | Left Bank | 18 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP315205 | Stormwater | Concrete Pipe | Right Bank | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP315206 | Stormwater | Concrete Pipe | Right Bank | 12 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP315207 | Stormwater | Concrete Pipe | Right Bank | 36 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP316201 | Stormwater | Concrete Pipe | Right Bank | 36 | | Yes | soapy bubbles | none | 3 | 3 | 2 |
| Pipe Outfall | UP316202 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP317204 | Stormwater | Corrugated Metal | | 12 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP318201 | Stormwater | Corrugated Metal | Right Bank | 18 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP318204 | Stormwater | Concrete Pipe | Right Bank | 36 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP318205 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP318207 | Stormwater | Concrete Pipe | Right Bank | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP320201 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP321203 | Stormwater | Corrugated Metal | Right Bank | 36 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP401301 | Stormwater | Concrete Pipe | Right Bank | 18 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP401302 | Stormwater | Concrete Pipe | Right Bank | 18 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP401303 | Stormwater | Concrete Pipe | Right Bank | 24 | | Yes | clear | sewage | 3 | 3 | 2 |
| Pipe Outfall | UP401304 | Stormwater | Concrete Pipe | Head of Stream | 48 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP404301 | Stormwater | Corrugated Metal | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP404302 | Stormwater | Concrete Pipe | Head of Stream | 48 | | Yes | light brown | none | 3 | 3 | 2 |
| Pipe Outfall | UP404306 | Stormwater | Concrete Pipe | Left Bank | 18 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP405304 | Sewage Treatment | Earth Channel | Right Bank | | 4 | Yes | clear | sewage | 3 | 3 | 2 |
| Pipe Outfall | UP407301 | Stormwater | Concrete Pipe | Head of Stream | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP407303 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP505401 | Stormwater | Concrete Pipe | Left Bank | 36 | | Yes | clear | rotten egg | 3 | 3 | 1 |
| Pipe Outfall | UP505403 | Stormwater | Concrete Pipe | Left Bank | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP508404 | Stormwater | Concrete Pipe | Right Bank | 12 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP602201 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | Clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP602203 | Stormwater | Concrete Pipe | Head of Stream | 24 | | Yes | Clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP604403 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP607204 | Stormwater | Concrete Pipe | | 18 | | Yes | Clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP610404 | Stormwater | Concrete Pipe | Right Bank | 12 | | Yes | clear | rotten egg | 3 | 3 | 1 |
| Pipe Outfall | UP615201 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP615202 | Stormwater | Concrete Pipe | Right Bank | 36 | | Yes | orange/brown | none | 3 | 3 | 1 |
| Pipe Outfall | UP616406 | Stormwater | Concrete Pipe | Left Bank | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP619102 | Unknown | Concrete Pipe | Left Bank | 18 | | Yes | rust orange | none | 3 | 3 | 1 |

| I | 7 | | | | | | | | / | | | |
|-------------------|----------|-------------|------------------|----------------|------|------------|----------|-----------------------|----------|-------|-------|---|
| / | / | | | | | | | /// | | | | |
| | | | | Right Book | oile | | and di | ,tr / / //tr | | , | / / | |
| | | Outall Type | 8 | 6 | × | Street of | 1/2 | %/ _{&} / | | | . / | cadified Access |
| Problem | | Kall | Pile INDE | ation | | Net / | alle! | Starting Color | / .4 | gever | , tel | KCGE S |
| \q\ ^{Q\} | Site | Outr | Pipe | / \outleto | | <u>~~~</u> | <u> </u> | girar cold | Odor | / ser | / con | \ \begin{align*} \rightarrow \text{CC_1} \\ \ri |
| Pipe Outfall U | JP620403 | Stormwater | Concrete Pipe | Right Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP620405 | Stormwater | Concrete Pipe | Right Bank | 18 | | Yes | medium brown | none | 3 | 3 | 1 |
| Pipe Outfall U | JP620406 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP620408 | Stormwater | Concrete Pipe | Right Bank | 18 | | Yes | medium brown | none | 3 | 3 | 2 |
| Pipe Outfall U | JP704301 | Stormwater | Concrete | Head of Stream | 30 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP713301 | Stormwater | Concrete Pipe | Head of Stream | 48 | | Yes | clear | none | 3 | 3 | 3 |
| Pipe Outfall U | JP715304 | Stormwater | Corrugated Metal | Right Bank | 60 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall UI | JP721303 | Stormwater | Concrete Pipe | Left Bank | 18 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP722302 | Stormwater | Concrete Pipe | Right Bank | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP723304 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP723305 | Stormwater | Concrete Pipe | Left Bank | 12 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP740301 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP802301 | Stormwater | congrated metal | head of stream | 24 | 3 | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP804305 | Stormwater | concrete pipe | right bank | 18 | 3 | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP805303 | Stormwater | concrete pipe | head of stream | 36 | 4 | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP807301 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP807302 | Stormwater | Plastic | Left Bank | 12 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP807303 | Stormwater | Concrete Pipe | Right Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP813401 | Stormwater | Concrete Pipe | | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP813406 | Stormwater | Concrete Pipe | Right Bank | 36 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP814405 | Stormwater | Plastic | Right Bank | 12 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP820202 | Stormwater | Concrete Pipe | Head of Stream | 72 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP829201 | Stormwater | Corrugated Metal | Head of Stream | 24 | | Yes | yellow brown | none | 3 | 3 | 1 |
| Pipe Outfall U | JP833202 | Stormwater | Concrete Pipe | Left Bank | 36 | | Yes | red | gasoline | 3 | 4 | 2 |
| Pipe Outfall U | JP836204 | Unknown | plastic | right bank | 4 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP842204 | Stormwater | concrete pipe | right bank | 36 | | Yes | CLEAR | none | 3 | 3 | 1 |
| Pipe Outfall U | JP849201 | Stormwater | Concrete Pipe | Right Bank | 24 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP859201 | Stormwater | Concrete Pipe | Head of Stream | 48 | | Yes | dark brown | none | 3 | 3 | 1 |
| Pipe Outfall U | JP860202 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall U | JP860205 | Stormwater | Concrete Pipe | Head of Stream | 36 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP860206 | Stormwater | Concrete Pipe | Right Bank | 12 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP862101 | Stormwater | Concrete Pipe | right bank | 6 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP864403 | Stormwater | Concrete Pipe | | 12 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP864405 | Stormwater | Concrete Pipe | cand | 24 | | Yes | Clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP865401 | cand Outlet | Concrete Pipe | Right Bank | 24 | | Yes | clear | none | 3 | 3 | 1 |
| Pipe Outfall U | JP865402 | Stormwater | Concrete Pipe | Left Bank | 24 | | Yes | clear | none | 3 | 3 | 1 |

| | $\overline{\hspace{1cm}}$ | | | | | | $\overline{}$ | /// | / | | | |
|--------------|---------------------------|------------|------------------|-----------------------|------|---|---------------|---------------|--------|------|---------|-----------------|
| | / | | | Lett Book Jocation of | aige | | | " / / " | | / | / , | / , , |
| | | OutenType | ine type | 7 | Χ" | on of the same of | Series Of | \$\\ \&\\ | | | / | cability Rccess |
| Problem | site | -uttall . | 10e14. | ocatio. | | illes . | OLINO . | Spraige Colds | odor | geve | its one | ACCES P |
| Pipe Outfall | ノ ら UP871303 | Stormwater | Smooth Metal | Left Bank | 6 | <u> </u> | ✓ ◇ Yes | clear | none | 3 | 3 | 3 |
| Pipe Outfall | UP876303 | Stormwater | Concrete Pipe | Right Bank | 18 | | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP880401 | Stormwater | Corrugated Metal | Head of Stream | 12 | 2 | Yes | Clear | none | 3 | 3 | 1 |
| Pipe Outfall | UP888405 | Stormwater | Smooth Metal | Right Bank | 12 | 4 | Yes | clear | none | 3 | 3 | 2 |
| Pipe Outfall | UP900304 | Stormwater | Earth Channel | Left Bank | 12 | 2 | Yes | clear | 110110 | 3 | 3 | 2 |
| Pipe Outfall | UP911108 | Stormwater | Plastic | Right Bank | 18 | 2 | Yes | clear | none | 3 | 1 | 1 |
| Pipe Outfall | UP610401 | Stormwater | Corrugated Metal | Right Bank | 24 | _ | No | 0.001 | | 4 | 2 | 2 |
| Pipe Outfall | UP713306 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 4 | 2 | 1 |
| Pipe Outfall | UP813404 | Unknown | Plastic | Left Bank | 6 | | No | | | 4 | 2 | 1 |
| Pipe Outfall | UP813405 | Unknown | Plastic | Left Bank | 2 | | No | | | 4 | 2 | 1 |
| Pipe Outfall | UP814402 | Unknown | Plastic | Left Bank | 6 | | No | | | 4 | 2 | 1 |
| Pipe Outfall | UP835106 | Stormwater | concrete pipe | left bank | 24 | | No | | | 4 | 1 | 2 |
| Pipe Outfall | UP846203 | Stormwater | Concrete Pipe | Right Bank | 36 | | No | | | 4 | 1 | 1 |
| Pipe Outfall | UP900306 | Stormwater | Concrete Channel | Right Bank | | 3 | No | | | 4 | 2 | 2 |
| Pipe Outfall | UP101301 | Stormwater | Corrugated Metal | J | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP101302 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP102302 | Stormwater | Concrete Pipe | | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP104304 | Stormwater | Corrugated Metal | | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP104306 | Stormwater | Concrete Pipe | Right Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP104307 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200201 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200204 | Stormwater | Corrugated Metal | Right Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200205 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200206 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200207 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200208 | Stormwater | Corrugated Metal | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200209 | Stormwater | Corrugated Metal | Right Bank | 8 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200210 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200211 | Stormwater | Plastic | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP200212 | Stormwater | Corrugated Metal | Right Bank | 24 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP200213 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP201202 | Stormwater | Concrete Pipe | Right Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP202201 | Stormwater | Corrugated Metal | Left Bank | 18 | | No | | | 5 | 1 | 3 |
| Pipe Outfall | UP202202 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 3 |
| Pipe Outfall | UP202204 | Stormwater | Concrete Pipe | Right Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP203202 | Stormwater | Corrugated Metal | Right Bank | 24 | | No | | | 5 | 1 | 3 |

| | $\overline{}$ | | | | | | 7 | /// | | | | |
|--------------|---------------|-------------|--------------------|-----------------------------|-------|-------------|----------|--------------|------|--------|----------|-----------------|
| | / | | | | æ | | / , | | | | | |
| | | OutenType | | Late Book Lacation of | 'Sid' | arneter of | Spire of | ight / | | | | dadility Access |
| Problem | | · sall Tar | ine type | ation | | , etel | "le) | State Cold | | Servei | ,td / .e | ctatr Access |
| Stop. | site | Outle | / Pile | \ \oldsymbol{O}_{C_{2}_{0}} | /0 | <u>~</u> ~~ | | action color | odor | / seve | / con | \bcco. |
| Pipe Outfall | UP304203 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP307201 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP307205 | Stormwater | Concrete Pipe | Left Bank | 18 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP309403 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP310202 | Stormwater | Concrete Pipe | Right Bank | 18 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP310204 | Unknown | Plastic | Left Bank | 4 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP317201 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP317202 | Stormwater | Corrugated Metal | Right Bank | 18 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP318202 | Stormwater | Corrugated Metal | Right Bank | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP318208 | Stormwater | Corrugated Metal | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP320204 | Stormwater | Corrugated Metal | Right Bank | 18 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP404307 | Unknown | Smooth Metal | Right Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP413401 | Stormwater | corrugated plastic | Right Bank | 3 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP413403 | Stormwater | Plastic | | 3 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP506404 | Stormwater | Concrete Pipe | Head of stream | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP607201 | Stormwater | Concrete Pipe | Right Bank | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP607202 | Stormwater | Concrete Pipe | Right Bank | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP607205 | Stormwater | Concrete Pipe | Right Bank | 8 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP613203 | Stormwater | Rip-rap | Right Bank | | 3 | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP615205 | Stormwater | Concrete Pipe | Left Bank | 48 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP710301 | Stormwater | Concrete Pipe | Right Bank | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP710303 | Stormwater | Concrete Pipe | Left Bank | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP713304 | Stormwater | Concrete Pipe | Right Bank | 48 | | No | | | 5 | 3 | 3 |
| Pipe Outfall | UP721301 | Stormwater | Concrete Pipe | Right Bank | 24 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP721302 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP721304 | Stormwater | Concrete Pipe | Left Bank | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP722305 | Stormwater | Concrete Pipe | Left Bank | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP728105 | cand Outlet | Plastic | Left Bank | 4 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP730305 | Stormwater | Concrete Channel | Right Bank | | 24 | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP734305 | Stormwater | Corrugated Metal | | 18 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP804302 | Stormwater | concrete pipe | rightbank | 12 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP810305 | Stormwater | concrete pipe | | 12 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP813403 | Stormwater | Concrete Pipe | Head of Stream | 24 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP821201 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | | 5 | 1 | 1 |
| Pipe Outfall | UP832201 | Stormwater | Concrete Pipe | Left Bank | 12 | | No | | | 5 | 1 | 2 |
| Pipe Outfall | UP832204 | Stormwater | Concrete Channel | Right Bank | | 3 | No | | | 5 | 1 | 1 |

Pipe Outfall- Upper Patuxent Watershed in Prince George's County

| Arddleri | /site | OutenType | | Location of | QiQ [®] | and d | and of | Okor | Seve | ind Cours | ctadillad Access |
|--------------|----------|------------|------------------|----------------|------------------|-------|--------|------|------|-----------|------------------|
| Pipe Outfall | UP833201 | Stormwater | Concrete Channel | Right Bank | | 2 | No | | 5 | 1 | 1 |
| Pipe Outfall | UP833204 | Stormwater | Concrete Pipe | Left Bank | 24 | | No | | 5 | 1 | 1 |
| Pipe Outfall | UP833205 | Stormwater | Concrete Pipe | Right Bank | 24 | | No | | 5 | 1 | 1 |
| Pipe Outfall | UP833206 | Stormwater | Concrete Pipe | Right Bank | 12 | | No | | 5 | 1 | 2 |
| Pipe Outfall | UP842203 | Stormwater | concrete channel | left bank | | 3 | No | | 5 | 1 | 1 |
| Pipe Outfall | UP842205 | Stormwater | concrete channel | left bank | | 3 | No | | 5 | 1 | 1 |
| Pipe Outfall | UP847201 | Stormwater | Concrete Pipe | Left Bank | 36 | | No | | 5 | 1 | 3 |
| Pipe Outfall | UP853104 | Stormwater | plastic | left bank | 6 | | No | | 5 | 2 | 1 |
| Pipe Outfall | UP860204 | Stormwater | Concrete Pipe | Right Bank | 18 | | No | | 5 | 1 | 1 |
| Pipe Outfall | UP862104 | Stormwater | concrete channel | Right Bank | | 2 | No | | 5 | 1 | 1 |
| Pipe Outfall | UP871107 | Unknown | concrete pipe | right bank | 8 | | No | | 5 | 1 | 2 |
| Pipe Outfall | UP871305 | Unknown | Terra cotta | Left Bank | 12 | | No | | 5 | 1 | 3 |
| Pipe Outfall | UP875301 | Stormwater | Concrete Pipe | Right Bank | 18 | | No | | 5 | 1 | 1 |
| Pipe Outfall | UP886404 | Stormwater | Plastic | Right Bank | 24 | 12 | No | | 5 | 1 | 2 |
| Pipe Outfall | UP886405 | Stormwater | Concrete Pipe | Right Bank | 24 | 8 | No | | 5 | 3 | 1 |
| Pipe Outfall | UP886407 | Stormwater | Concrete Pipe | Right Bank | 12 | 2 | No | | 5 | 1 | 1 |
| Pipe Outfall | UP900301 | Stormwater | Concrete Pipe | Head of Stream | 36 | | No | | 5 | 1 | 1 |

| | | | .0. | | | | | | atility / |
|--------------|----------|---------|-----------------------|----------------------|--------|--------|---------|---------|-----------|
| Problem | Site | Blocks | 38 / 148° | \$FEREOL. | Drapil | Deptil | csever! | Collect | kcess |
| Fish Barrier | UP624101 | Total | Road Crossing | Too High/Too Shallow | 10 | 1 | 2 | 5 | 1 |
| Fish Barrier | UP106403 | Total | Crossing | Too High | 8 | | 3 | 3 | 2 |
| Fish Barrier | UP107403 | Total | Channel Alteration | Too High | 24 | | 3 | 3 | 2 |
| Fish Barrier | UP109405 | Total | Crossing | Too High | 48 | | 3 | 3 | 1 |
| Fish Barrier | UP312109 | Total | Road Crossing | Too Shallow | | 0.5 | 3 | 5 | 1 |
| Fish Barrier | UP318206 | Total | Road Crossing | Too Shallow | | 0.25 | 3 | 5 | 1 |
| Fish Barrier | UP320203 | Total | Dam | Too High | 36 | | 3 | 5 | 3 |
| Fish Barrier | UP321202 | Total | Dam | Too High | 60 | | 3 | 5 | 2 |
| Fish Barrier | UP322201 | Total | Dam | Too High | 60 | | 3 | 5 | 2 |
| Fish Barrier | UP609001 | Total | Instream pond | Too high | 36 | | 3 | 5 | 1 |
| Fish Barrier | UP610402 | Total | Dam | Too High | 24 | | 3 | 4 | 1 |
| Fish Barrier | UP613204 | Total | Road Crossing | Too High | 40 | | 3 | 4 | 1 |
| Fish Barrier | UP616403 | Total | Channel Alteration | Too Shallow | | 0.25 | 3 | 1 | 1 |
| Fish Barrier | UP722303 | Total | Trail bridge crossing | Too High | 24 | | 3 | 5 | 2 |
| Fish Barrier | UP730302 | Total | Road Crossing | Too High | 12 | | 3 | 5 | 1 |
| Fish Barrier | UP731304 | Total | Road Crossing | Too High | 24 | | 3 | 5 | 1 |
| Fish Barrier | UP907102 | Total | Road Crossing | Too Shallow | | 0.5 | 3 | 5 | 1 |
| Fish Barrier | UP203201 | Total | Dam | Too High | 10 | 0 | 4 | 4 | 3 |
| Fish Barrier | UP307203 | Partial | Road Crossing | Too Shallow | | 0.25 | 4 | 3 | 1 |
| Fish Barrier | UP309401 | Total | Road Crossing | Too High | 48 | | 4 | 3 | 1 |
| Fish Barrier | UP404304 | Total | Road Crossing | Too High | 12 | | 4 | 3 | 1 |
| Fish Barrier | UP404305 | Total | Dam | Too High | 48 | | 4 | 3 | 1 |
| Fish Barrier | UP405302 | Total | Road Crossing | Too High/Too Shallow | 12 | 2 | 4 | 3 | 2 |
| Fish Barrier | UP405303 | Total | Dam | Too High | 36 | | 4 | 3 | 2 |
| Fish Barrier | UP410301 | Total | Channel Alteration | Too High | 36 | | 4 | 3 | 3 |
| Fish Barrier | UP502401 | Total | Road Crossing | Too High | 24 | | 4 | 1 | 1 |
| Fish Barrier | UP504402 | Total | Channel Alteration | Too High | 24 | | 4 | 1 | 1 |
| Fish Barrier | UP505402 | Total | Road Crossing | Too High | 52 | | 4 | 1 | 1 |
| Fish Barrier | UP509401 | Total | Channel Alteration | Too High | 12 | | 4 | 1 | 1 |
| Fish Barrier | UP509404 | Total | Road Crossing | Too High | 36 | | 4 | 1 | 1 |
| Fish Barrier | UP604306 | Total | Underground stream | Too High | 24 | | 4 | 3 | 2 |
| Fish Barrier | UP604308 | Total | Dam | Too High | 24 | | 4 | 3 | 2 |
| Fish Barrier | UP721202 | Total | Road Crossing | Too High | 180 | | 4 | 5 | 1 |
| Fish Barrier | UP728103 | Total | Road Crossing | Too High | 50 | | 4 | 5 | 1 |

| | | | <u> </u> | | | | ın : | 14 | ACCES 5 |
|--------------|----------|-----------|--------------------|----------------------|--------|--------|--------------|-------|--------------------|
| Problem | site | Blocks | 140° | 2 Repair | Dropli | Depti. | csever cover | corre | ACCES ⁵ |
| Fish Barrier | UP728104 | Total | Road Crossing | Too Shallow | | 0.25 | 4 | 5 | 1 |
| Fish Barrier | UP734304 | Total | Road Crossing | Too Shallow | | 1 | 4 | 5 | 1 |
| Fish Barrier | UP808302 | Partial | Road Crossing | Too High/Too Shallow | 6 | 1 | 4 | 3 | 2 |
| Fish Barrier | UP810303 | Total | Instream pond | Too high | 50 | | 4 | 3 | 1 |
| Fish Barrier | UP831202 | Total | Dam | Too High | 72 | | 4 | 3 | 2 |
| Fish Barrier | UP864404 | Total | Instream pond | Too High | 52 | | 4 | 3 | 1 |
| Fish Barrier | UP900305 | Total | Road Crossing | Too High | 12 | | 4 | 4 | 2 |
| Fish Barrier | UP103302 | Temporary | Debris Dam | Too High | 36 | | 5 | 1 | 2 |
| Fish Barrier | UP103306 | Temporary | Debris Dam | Too High | 36 | | 5 | 2 | 2 |
| Fish Barrier | UP106401 | Temporary | Debris Dam | Too Shallow | | 0.25 | 5 | 2 | 1 |
| Fish Barrier | UP109404 | Temporary | Debris Dam | Too High | 12 | | 5 | 2 | 1 |
| Fish Barrier | UP312105 | Temporary | Debris Dam | Too High | | | 5 | 1 | 1 |
| Fish Barrier | UP322203 | Temporary | Debris Dam | Too High | 36 | | 5 | 2 | 1 |
| Fish Barrier | UP411402 | Total | Natural Falls | Too High | 48 | | 5 | 2 | 2 |
| Fish Barrier | UP412401 | Total | Natural Falls | Too Shallow | | 1 | 5 | 2 | 3 |
| Fish Barrier | UP504408 | Total | Natural Falls | Too High | 24 | | 5 | 1 | 4 |
| Fish Barrier | UP504409 | Total | Natural Falls | Too Shallow | | 1 | 5 | 3 | 4 |
| Fish Barrier | UP505407 | Temporary | Debris Dam | Too Shallow | 0.25 | | 5 | 1 | 1 |
| Fish Barrier | UP506402 | Total | Channel Alteration | Too High | 12 | | 5 | 1 | 1 |
| Fish Barrier | UP506403 | Temporary | Debris Dam | Too High | 10 | | 5 | 1 | 1 |
| Fish Barrier | UP508405 | Temporary | Debris Dam | Too High | 10 | | 5 | 2 | 3 |
| Fish Barrier | UP509402 | Temporary | Debris Dam | Too High | 36 | | 5 | 1 | 1 |
| Fish Barrier | UP509403 | Partial | Natural Falls | Too High | 36 | | 5 | 3 | 3 |
| Fish Barrier | UP509406 | Temporary | Debris Dam | Too Shallow | | 0.25 | 5 | 1 | 2 |
| Fish Barrier | UP510401 | Total | Natural Falls | Too Fast | 20 | | 5 | 3 | 3 |
| Fish Barrier | UP511402 | Temporary | Beaver dam | Too Shallow | | 1 | 5 | 1 | 2 |
| Fish Barrier | UP511403 | Temporary | Debris Dam | Too High | 8 | | 5 | 1 | 2 |
| Fish Barrier | UP604311 | Temporary | Debris Dam | Too High | 12 | | 5 | 2 | 2 |
| Fish Barrier | UP604312 | Temporary | Debris Dam | Too High | 24 | | 5 | 2 | 2 |
| Fish Barrier | UP604314 | Temporary | Debris Dam | Too High | 36 | | 5 | 3 | 2 |
| Fish Barrier | UP604401 | Total | Dam | Too High | 36 | | 5 | 5 | 1 |
| Fish Barrier | UP604404 | Total | Dam | Too High | 10 | | 5 | 4 | 1 |
| Fish Barrier | UP605403 | Total | Dam | Too High | 8 | | 5 | 5 | 1 |
| Fish Barrier | UP614202 | Total | Natural Falls | Too High | 72 | | 5 | 4 | 2 |

| | | | | | | | | | riity |
|--------------|----------|-----------|---------------------------------|-------------|--------|--------|---------|--------|-------|
| Problem | Site | \$10CH2 | \$\$ _\^{1}\text{\$\epsilon\$} | Reagon | Drapil | Dediti | csever! | Collec | ACCES |
| Fish Barrier | UP618204 | Temporary | Debris Dam | Too High | 12 | | 5 | 1 | 5 |
| Fish Barrier | UP620401 | Temporary | Debris Dam | Too High | 4 | | 5 | 1 | 2 |
| Fish Barrier | UP622401 | Temporary | Debris Dam | Too Shallow | | 1 | 5 | 1 | 2 |
| Fish Barrier | UP624104 | Temporary | Debris Dam | Too High | | | 5 | 1 | 3 |
| Fish Barrier | UP624105 | Temporary | Debris Dam | Too High | | | 5 | 1 | 3 |
| Fish Barrier | UP715301 | Temporary | Debris Dam | Too High | 24 | | 5 | 2 | 2 |
| Fish Barrier | UP715305 | Temporary | Beaver dam | Too high | 24 | | 5 | 2 | 1 |
| Fish Barrier | UP716301 | Temporary | Beaver dam | Too High | 36 | | 5 | 1 | 4 |
| Fish Barrier | UP718305 | Temporary | Debris Dam | Too High | 50 | | 5 | 3 | 3 |
| Fish Barrier | UP721206 | Temporary | Debris Dam | Too High | 36 | | 5 | 1 | 3 |
| Fish Barrier | UP723301 | Total | Natural Falls | Too High | 12 | | 5 | 1 | 2 |
| Fish Barrier | UP732201 | Temporary | Debris Dam | Too High | 18 | | 5 | 1 | 2 |
| Fish Barrier | UP737203 | Temporary | Debris Dam | Too High | 12 | | 5 | 2 | 5 |
| Fish Barrier | UP738202 | Temporary | Debris Dam | Too High | 6 | | 5 | 1 | 3 |
| Fish Barrier | UP738205 | Temporary | Debris Dam | Too High | 18 | | 5 | 2 | 4 |
| Fish Barrier | UP738206 | Temporary | Debris Dam | Too High | | | 5 | 1 | 3 |
| Fish Barrier | UP738208 | Total | Road Crossing | Too High | | | 5 | 3 | 1 |
| Fish Barrier | UP740304 | Total | Dam | Too High | 36 | | 5 | 3 | 1 |
| Fish Barrier | UP802303 | Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 3 |
| Fish Barrier | UP802304 | Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 3 |
| Fish Barrier | UP803302 | Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 1 |
| Fish Barrier | UP804304 | Partial | Channel Alteration | Too High | 24 | | 5 | 3 | 1 |
| Fish Barrier | UP804306 | Temporary | Debris Dam | Too High | 36 | | 5 | 1 | 1 |
| Fish Barrier | UP804307 | Temporary | Debris Dam | Too High | 12 | | 5 | 1 | 2 |
| Fish Barrier | UP805305 | Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 2 |
| Fish Barrier | UP805307 | Temporary | Debris Dam | Too High | 18 | | 5 | 1 | 2 |
| Fish Barrier | UP808301 | Total | Natural Falls | Too High | 24 | | 5 | 1 | 3 |
| Fish Barrier | UP809302 | Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 2 |
| Fish Barrier | UP810301 | Temporary | Debris Dam | Too High | 36 | | 5 | 2 | 2 |
| Fish Barrier | UP811302 | Temporary | Debris Dam | Too High | 12 | | 5 | 1 | 2 |
| Fish Barrier | UP813409 | Temporary | Debris Dam | Too Shallow | | 0.25 | 5 | 2 | 3 |
| Fish Barrier | UP820201 | Temporary | Beaver dam | Too High | 36 | | 5 | 2 | 1 |
| Fish Barrier | UP824303 | Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 4 |
| Fish Barrier | UP825301 | Temporary | Debris Dam | Too High | 18 | | 5 | 1 | 2 |

| 1 / / | / | | | | | | |
|---------------------------------|--------------------|-------------|--------|-------------------------------------|-------------|---------------------------------------|-------------------|
| | .0. | | | | a / | . / | kcces5 |
| Signet Site Mg | kee Like | \$EREDIT. | Dropl | To Destin | Sever Sever | id / rie | ACCES |
| Sign Sign Store | 446e | | / Ord. | \ \dagger{\int_{\mathbb{e}_{\psi}}} | <u> </u> | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ b _{CC} |
| Fish Barrier UP828204 Temporary | | Too High | 36 | | 5 | 3 | 1 |
| Fish Barrier UP831201 Temporary | | Too High | 13 | | 5 | 1 | 3 |
| Fish Barrier UP835105 Temporary | | Too High | 18 | | 5 | 2 | 3 |
| Fish Barrier UP835202 Temporary | Beaver dam | Too High | 6 | | 5 | 2 | 2 |
| Fish Barrier UP836201 Temporary | Beaver dam | Too High | 36 | | 5 | 2 | 1 |
| Fish Barrier UP840102 Total | Trash | Too High | 30 | | 5 | 1 | 1 |
| Fish Barrier UP842201 Temporary | Debris Dam | Too High | 36 | | 5 | 3 | 3 |
| Fish Barrier UP842202 Temporary | Debris Dam | Too High | 6 | | 5 | 1 | 2 |
| Fish Barrier UP843202 Temporary | Debris Dam | Too High | 36 | | 5 | 2 | 2 |
| Fish Barrier UP843203 Temporary | Debris Dam | Too High | 24 | | 5 | 1 | 2 |
| Fish Barrier UP843205 Temporary | Debris Dam | Too High | 18 | | 5 | 3 | 2 |
| Fish Barrier UP846201 Temporary | Debris Dam | Too High | 12 | | 5 | 1 | 2 |
| Fish Barrier UP846205 Temporary | Debris Dam | Too High | 36 | | 5 | 2 | 2 |
| Fish Barrier UP847202 Temporary | Debris Dam | Too high | 12 | | 5 | 4 | 1 |
| Fish Barrier UP849203 Temporary | Debris Dam | Too High | 12 | | 5 | 2 | 1 |
| Fish Barrier UP850201 Temporary | Debris Dam | Too High | 18 | | 5 | 2 | 3 |
| Fish Barrier UP853102 Temporary | Debris Dam | Too High | 18 | | 5 | 2 | 1 |
| Fish Barrier UP854104 Temporary | Debris Dam | Too High | 12 | | 5 | 1 | 4 |
| Fish Barrier UP860203 Temporary | Debris Dam | Too High | 24 | | 5 | 2 | 2 |
| Fish Barrier UP864401 Temporary | Beaver dam | Too High | 52 | | 5 | 2 | 1 |
| Fish Barrier UP865403 Partial | Channel Alteration | Too Shallow | | 0.25 | 5 | 2 | 1 |
| Fish Barrier UP865406 Temporary | Debris Dam | Too Shallow | | 0.5 | 5 | 3 | 1 |
| Fish Barrier UP865407 Total | Channel Alteration | Too High | 36 | | 5 | 3 | 2 |
| Fish Barrier UP866402 Temporary | Debris Dam | Too Shallow | | 0.25 | 5 | 3 | 1 |
| Fish Barrier UP871110 Temporary | Debris Dam | Too High | 8 | | 5 | 1 | 2 |
| Fish Barrier UP871306 Temporary | Debris Dam | Too High | 6 | | 5 | 1 | 1 |
| Fish Barrier UP876304 Total | Dam | Too High | 12 | | 5 | 3 | 2 |
| Fish Barrier UP880104 Temporary | Debris Dam | Too High | 6 | | 5 | 1 | 2 |
| Fish Barrier UP883401 Temporary | Debris Dam | Too High | 10 | | 5 | 3 | 2 |
| Fish Barrier UP883402 Temporary | Beaver dam | Too Shallow | | 0.25 | 5 | 2 | 3 |
| Fish Barrier UP885402 Temporary | | Too Shallow | | 0.25 | 5 | 2 | 4 |
| Fish Barrier UP885407 Temporary | | Too Shallow | | 0.25 | 5 | 2 | 1 |
| Fish Barrier UP885410 Temporary | | Too High | 52 | | 5 | 2 | 1 |
| Fish Barrier UP886401 Temporary | | Too High | 8 | | 5 | 2 | 3 |

Fish Barriers- Upper Patuxent Watershed in Prince George's County

| Problem | Site | Blocks | \$º THE | Regent. | Dropli | n Death | in sever | id Collec | tadiity kcess |
|--------------|----------|-----------|---------------|-------------|--------|---------|----------|-----------|---------------|
| Fish Barrier | UP902301 | Total | Natural Falls | Too High | 18 | | 5 | 1 | 4 |
| Fish Barrier | UP903304 | Total | Trail | Too High | 6 | | 5 | 2 | 2 |
| Fish Barrier | UP909101 | Temporary | Debris Dam | Too High | 18 | | 5 | 1 | 1 |
| Fish Barrier | UP909104 | Total | Natural Falls | Too High | 12 | 0 | 5 | 5 | 5 |
| Fish Barrier | UP911104 | Total | Road Crossing | Too High | 2 | | 5 | 5 | 1 |
| Fish Barrier | UP921401 | Total | Natural Falls | Too High | 48 | | 5 | 4 | 1 |
| Fish Barrier | UP926204 | Temporary | Debris Dam | Too High | 3 | | 5 | 1 | 1 |
| Fish Barrier | UP929405 | Partial | Natural Falls | Too High | 6 | | 5 | 2 | 4 |
| Fish Barrier | UP930404 | Temporary | Debris Dam | Too Shallow | | 1 | 5 | 1 | 1 |

| Probi | ger Site | ,4ge | Polow Pood Crossing | \\ \sigma_{\text{\ti}\}\text{\ti}\}\\ \text{\te}\}\\ \text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex | John H | jord use right | i janduse ket | Intrastr | drife ed. Describe | severi | d Correct | adilled Pocoess |
|---------|----------|-------------|---------------------|--|--------|--------------------|--------------------|----------|--------------------|--------|-----------|-----------------|
| Erosion | UP109401 | Downcutting | Below Road Crossing | 3600 | 6 | Shrubs/Small Trees | Lawn | | | 1 | 2 | 3 |
| Erosion | UP410303 | Downcutting | Unknown | 2700 | 10 | Forest | Forest | | | 1 | 5 | 4 |
| Erosion | UP412402 | Headcutting | Bend at Slope | 2400 | 20 | Shrubs/Small Trees | Shrubs/Small Trees | | | 1 | 5 | 4 |
| Erosion | UP508403 | Headcutting | Below Road Crossing | 3500 | 6 | Shrubs/Small Trees | Shrubs/Small Trees | | | 1 | 5 | 1 |
| Erosion | UP614203 | Headcutting | Unknown | 700 | 12 | Forest | Forest | | | 1 | 4 | 3 |
| Erosion | UP616402 | Widening | Below Road Crossing | 3800 | 20 | Lawn | Lawn | Yes | | 1 | 5 | 1 |
| Erosion | UP738209 | Widening | Unknown | 1500 | 12 | Forest | Shrubs/Small Trees | | | 1 | 5 | 1 |
| Erosion | UP741202 | Widening | Unknown | 1200 | 6 | Forest | Forest | | | 1 | 5 | 3 |
| Erosion | UP742201 | Widening | Unknown | 2500 | 8 | Forest | Forest | | | 1 | 5 | 1 |
| Erosion | UP824302 | Downcutting | Unknown | 2000 | 6 | Forest | Forest | | | 1 | 3 | 4 |
| Erosion | UP862105 | Widening | unknown | 6200 | 6 | Forest | Forest | | | 1 | 5 | 3 |
| Erosion | UP863101 | Widening | unknown | 4000 | 6 | Forest | Forest | | | 1 | 5 | 4 |
| Erosion | UP885404 | Unknown | Below Road Crossing | 4500 | 6 | Shrubs/Small Trees | Shrubs/Small Trees | | | 1 | 5 | 2 |
| Erosion | UP308403 | Downcutting | Channel Alteration | 2000 | 10 | Lawn | Paved | | | 2 | 2 | 1 |
| Erosion | UP624102 | Widening | Below Road Crossing | 400 | 15 | Forest | Forest | | | 2 | 3 | 4 |
| Erosion | UP719301 | Downcutting | Bend at Slope | 900 | 9 | Shrubs/Small Trees | Shrubs/Small Trees | | | 2 | 4 | 2 |
| Erosion | UP730306 | Widening | Below Road Crossing | 1300 | 5 | Forest | Forest | | | 2 | 3 | 3 |
| Erosion | UP802302 | Downcutting | unknown | 1800 | 6 | Forest | Forest | | | 2 | 4 | 2 |
| Erosion | UP882401 | Unknown | Below Road Crossing | 2300 | 10 | Shrubs/Small Trees | Shrubs/Small Trees | | | 2 | 3 | 2 |
| Erosion | UP901301 | Widening | Bend at Slope | 3500 | 4 | Forest | Forest | | | 2 | 4 | 4 |
| Erosion | UP907104 | Downcutting | Unknown | 1300 | 4 | Forest | Shrubs/Small Trees | | | 2 | 4 | 2 |
| Erosion | UP911106 | Widening | Unknown | 4000 | 5 | Paved | Forest | Yes | | 2 | 5 | 4 |
| Erosion | UP106404 | Widening | Below Road Crossing | 200 | 8 | Lawn | Shrubs/Small Trees | | | 3 | 3 | 1 |
| Erosion | UP110406 | Widening | Unknown | 100 | 8 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 3 | 2 |
| Erosion | UP312101 | Widening | Unknown | 2200 | 3 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 4 | 2 |
| Erosion | UP316203 | Widening | Land Use Change | 1600 | 4 | Shrubs/Small Trees | Shrubs/Small Trees | Yes | paved lots, houses | 3 | 3 | 1 |
| Erosion | UP407302 | Downcutting | Land Use Change | 500 | 5 | Forest | Forest | | | 3 | 3 | 1 |
| Erosion | UP409302 | Downcutting | Unknown | 500 | 5 | Forest | Forest | | | 3 | 3 | 5 |
| Erosion | UP410304 | Downcutting | Unknown | 200 | 6 | Forest | Forest | | | 3 | 3 | 5 |
| Erosion | UP411401 | Downcutting | Land Use Change | 600 | 8 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 2 | 3 |
| Erosion | UP413402 | Headcutting | Bend at Slope | 150 | 6 | Lawn | Shrubs/Small Trees | | | 3 | 3 | 2 |
| Erosion | UP504405 | Widening | Channel Alteration | 1500 | 4 | Shrubs/Small Trees | Paved | | | 3 | 5 | 1 |
| Erosion | UP504407 | Downcutting | Land Use Change | 600 | 6 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 3 | 3 |

| Profi | ger cite | , inte | Read Hee Change | \s\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | J. J. H. | jatur jat use rafi | k Jank Lise left | Infrastri | the delight describe | severi | d Correct | adilled Access |
|---------|----------|-------------|---------------------|--|----------|--------------------|--------------------|-----------|----------------------|--------|-----------|----------------|
| Erosion | UP505406 | Widening | Land Use Change | 600 | 8 | Shrubs/Small Trees | Paved | | | 3 | 3 | 1 |
| Erosion | UP509407 | Downcutting | Channel Alteration | 800 | 6 | Paved | Shrubs/Small Trees | | | 3 | 3 | 1 |
| Erosion | UP604309 | Widening | Unknown | 1000 | 6 | Lawn | Lawn | | | 3 | 4 | 2 |
| Erosion | UP615204 | Widening | Pipe Outfall | 550 | 15 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 4 | 2 |
| Erosion | UP624106 | Widening | Unknown | 4200 | 5 | Forest | Forest | | | 3 | 5 | 3 |
| Erosion | UP720401 | Widening | Below Road Crossing | 400 | 5 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 3 | 2 |
| Erosion | UP722301 | Downcutting | Bend at Slope | 550 | 6 | Lawn | Lawn | | | 3 | 3 | 2 |
| Erosion | UP728102 | Downcutting | Unknown | 1200 | 3 | Paved | Paved | | | 3 | 2 | 1 |
| Erosion | UP730307 | Downcutting | Bend at Slope | 400 | 6 | Forest | Forest | | | 3 | 3 | 3 |
| Erosion | UP731302 | Downcutting | Unknown | 800 | 5 | Forest | Lawn | | | 3 | 3 | 2 |
| Erosion | UP731306 | Widening | Land Use Change | 1750 | 5 | Forest | Forest | | | 3 | 3 | 1 |
| Erosion | UP733302 | Widening | Bend at Slope | 800 | 4 | Forest | Forest | | | 3 | 3 | 3 |
| Erosion | UP740302 | Widening | Unknown | 1000 | 3 | Lawn | Lawn | | | 3 | 3 | 1 |
| Erosion | UP804303 | Downcutting | unknown | 600 | 5 | Forest | Lawn | | | 3 | 3 | 1 |
| Erosion | UP809303 | Downcutting | unknown | 1000 | 5 | Forest | Forest | | | 3 | 3 | 2 |
| Erosion | UP828202 | Widening | Land Use Change | 2300 | 3 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 4 | 2 |
| Erosion | UP831203 | Widening | below dam | 2200 | 5 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 2 | 2 |
| Erosion | UP835104 | Widening | Bend at Slope | 2500 | 4 | Forest | Forest | | | 3 | 5 | 3 |
| Erosion | UP835201 | Widening | unknown | 800 | 5 | Forest | Forest | | | 3 | 2 | 3 |
| Erosion | UP846204 | Widening | Bend at Slope | 1400 | 5 | Forest | Forest | | | 3 | 3 | 3 |
| Erosion | UP853103 | Widening | unknown | 1800 | 4 | Forest | Forest | | | 3 | 3 | 4 |
| Erosion | UP866401 | Unknown | Land Use Change | 1000 | 5 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 3 | 2 |
| Erosion | UP871302 | Widening | Unknown | 400 | 4 | Forest | Forest | | | 3 | 3 | 3 |
| Erosion | UP901304 | Downcutting | Unknown | 900 | 5 | Forest | Forest | | | 3 | 3 | 4 |
| Erosion | UP903303 | Downcutting | Land Use Change | 1000 | 4 | Lawn | Forest | | | 3 | 3 | 3 |
| Erosion | UP909103 | Widening | Unknown | 600 | 6 | Crop Field | Forest | | | 3 | 4 | 4 |
| Erosion | UP924201 | Widening | Bend at Slope | 800 | 6 | Lawn | Paved | Yes | | 3 | 4 | 1 |
| Erosion | UP928402 | Headcutting | Bend at Slope | 600 | 30 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 3 | 3 |
| Erosion | UP929403 | Headcutting | Bend at Slope | 400 | 6 | Shrubs/Small Trees | Shrubs/Small Trees | | | 3 | 3 | 2 |
| Erosion | UP103305 | Widening | Unknown | 300 | 3.5 | Lawn | Forest | | | 4 | 3 | 2 |
| Erosion | UP110404 | Widening | Land Use Change | 30 | 10 | Shrubs/Small Trees | Shrubs/Small Trees | Yes | | 4 | 2 | 3 |
| Erosion | UP618203 | Headcutting | Unknown | 80 | 18 | Forest | Forest | | | 4 | 4 | 5 |
| Erosion | UP713305 | Downcutting | Pipe Outfall | 75 | 6 | Lawn | Lawn | | | 4 | 3 | 3 |

Erosion- Upper Patuxent Watershed in Prince George's County

| proti | igen cite | THE | Possilie | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | , dintri | and the right | Landuse left | ntrastru ntrastru | the delige design | severi | Correct | adility podess |
|---------|-----------|-------------|---------------------|--|----------|--------------------|--------------------|----------------------|-------------------|--------|---------|----------------|
| Erosion | UP719303 | Downcutting | Unknown | 300 | 4 | Shrubs/Small Trees | Shrubs/Small Trees | | | 4 | 3 | 2 |
| Erosion | UP730301 | Widening | Bend at Slope | 100 | 10 | Shrubs/Small Trees | Shrubs/Small Trees | | | 4 | 3 | 1 |
| Erosion | UP801302 | Downcutting | unknown | 400 | 5 | Forest | Forest | | | 4 | 3 | 1 |
| Erosion | UP805302 | Widening | Bend at Slope | 300 | 4 | Lawn | Lawn | | | 4 | 3 | 1 |
| Erosion | UP810302 | Downcutting | Bend at Slope | 100 | 6 | Forest | Shrubs/Small Trees | | | 4 | 4 | 2 |
| Erosion | UP817404 | Widening | Below Road Crossing | 300 | 4 | Lawn | Shrubs/Small Trees | | | 4 | 3 | 1 |
| Erosion | UP825302 | Headcutting | Unknown | 200 | 4 | Forest | Forest | | | 4 | 3 | 3 |
| Erosion | UP830201 | Widening | Land Use Change | 450 | 4 | Shrubs/Small Trees | Shrubs/Small Trees | | | 4 | 3 | 2 |
| Erosion | UP872301 | Widening | Unknown | 350 | 4 | Forest | Forest | | | 4 | 3 | 3 |
| Erosion | UP880402 | Headcutting | Pipe Outfall | 100 | 8 | Shrubs/Small Trees | Shrubs/Small Trees | | | 4 | 2 | 1 |
| Erosion | UP905301 | Downcutting | Unknown | 400 | 5 | Forest | Forest | | | 4 | 3 | 3 |
| Erosion | UP921401 | Widening | Bend at Slope | 400 | 30 | Shrubs/Small Trees | Shrubs/Small Trees | | | 4 | 2 | 3 |
| Erosion | UP926202 | Widening | Bend at Slope | 500 | 4 | Paved | Crop Field | | | 4 | 4 | 2 |
| Erosion | UP312106 | Downcutting | Unknown | 700 | 2.5 | Forest | Paved | | | 5 | 1 | 2 |
| Erosion | UP715303 | Headcutting | Unknown | 10 | 3 | Forest | Forest | | | 5 | 1 | 2 |
| Erosion | UP805306 | Downcutting | Bend at Slope | 50 | 5 | Shrubs/Small Trees | Forest | | | 5 | 3 | 2 |
| Erosion | UP905303 | Headcutting | Unknown | 150 | 4 | Forest | Forest | | | 5 | 3 | 5 |
| Erosion | UP911101 | Downcutting | Bend at Slope | 40 | 4 | Forest | Forest | | | 5 | 1 | 4 |
| Erosion | UP911105 | Downcutting | Below Road Crossing | 50 | 4 | Forest | Forest | | | 5 | 5 | 1 |

| | , | | _ | | | | _ | / / / / | | | | , , | | |
|-------------------|----------|-------|----------|-------|-------|--------------|---------|--------------------------|--------------------|------|-------------------|------------|------------|--------|
| | | | | | | | | | | | | | | |
| | | | | | | / / | / / | | | | ished | | | / |
| | | | // | /_ | | | | | | • | , stablis | / / | | l pp. |
| om . | | | | aged/ | / et/ | | | "Light Use" | 158 | dill | K. Ani. | ,s* / s | d / 8 | tabili |
| Problem | Site | / sit | ses Just | ni ni | dulgu | difficiality | din ent | redikiditili zed lee lei | Jand Life Right | Sec. | Established Lines | soct sever | ed College | KCGES |
| Inadequate Buffer | UP405301 | Both | Both | 0 | 0 | 400 | 1700 | Lawn | Lawn | No | No | 1 | 4 | 2 |
| Inadequate Buffer | UP813407 | Both | Both | 0 | 0 | 1200 | 1200 | Lawn | Lawn | No | No | 1 | 2 | 3 |
| Inadequate Buffer | UP869301 | Both | Neither | 0 | 0 | 1500 | 1500 | Shrubs/Small Trees | Lawn | No | No | 1 | 1 | 3 |
| Inadequate Buffer | UP312104 | Both | Neither | 7 | 10 | 400 | 2200 | Paved | Paved | No | No | 2 | 5 | 1 |
| Inadequate Buffer | UP313202 | Both | Both | 20 | 20 | 400 | 800 | Shrubs/Small Trees | Shrubs/Small Trees | No | No | 2 | 5 | 2 |
| Inadequate Buffer | UP704302 | Both | Both | 0 | 0 | 2400 | 2400 | Lawn | Lawn | No | No | 2 | 3 | 1 |
| Inadequate Buffer | UP713303 | Both | Both | 0 | 0 | 1300 | 1300 | Lawn | Lawn | Yes | No | 2 | 3 | 2 |
| Inadequate Buffer | UP811301 | Both | Both | 0 | 0 | 700 | 700 | Lawn | Lawn | No | No | 2 | 3 | 1 |
| Inadequate Buffer | UP104402 | Left | Left | 0 | | 400 | | wetland | Shrubs/Small Trees | No | No | 3 | 1 | 1 |
| Inadequate Buffer | UP308404 | Both | Both | 0 | 0 | 400 | 2000 | Multiflora rose | Paved | No | No | 3 | 3 | 1 |
| Inadequate Buffer | UP312107 | Both | Both | 15 | 7 | 400 | 700 | Lawn | Forest | No | No | 3 | 3 | 2 |
| Inadequate Buffer | UP315203 | Both | Neither | 20 | 20 | 400 | 3300 | Shrubs/Small Trees | Shrubs/Small Trees | No | No | 3 | 5 | 2 |
| Inadequate Buffer | UP604310 | Both | Neither | 0 | 0 | 1100 | 1100 | Lawn | Lawn | No | No | 3 | 3 | 2 |
| Inadequate Buffer | UP616405 | Left | Left | 0 | | 700 | | Lawn | Shrubs/Small trees | No | No | 3 | 1 | 1 |
| Inadequate Buffer | UP711301 | Both | Neither | 10 | 20 | 2500 | 2500 | Shrubs/Small Trees | Shrubs/Small trees | No | No | 3 | 4 | 1 |
| Inadequate Buffer | UP718302 | Both | Neither | 20 | 20 | 1700 | 1700 | Shrubs/Small Trees | Shrubs/Small trees | No | No | 3 | 3 | 2 |
| Inadequate Buffer | UP726401 | Both | Both | 0 | 0 | 200 | 1200 | Lawn | Lawn | No | No | 3 | 1 | 1 |
| Inadequate Buffer | UP731301 | Right | Neither | | 0 | | 500 | Forest | Lawn | No | No | 3 | 2 | 2 |
| Inadequate Buffer | UP804301 | Left | Left | 0 | | 2100 | | Lawn | Forest | No | No | 3 | 3 | 1 |
| Inadequate Buffer | UP813402 | Left | Left | 0 | | 1200 | | Paved | Shrubs/Small Trees | No | No | 3 | 3 | 1 |
| Inadequate Buffer | UP817402 | Left | Left | 0 | | 1200 | | Lawn | Shrubs/Small Trees | No | No | 3 | 2 | 2 |
| Inadequate Buffer | UP832202 | Left | | 0 | | 650 | | Lawn | Shrubs/Small trees | No | No | 3 | 4 | 1 |
| Inadequate Buffer | UP840101 | Both | Left | 5 | | 400 | | Paved | Multiflora rose | No | No | 3 | 5 | 1 |
| Inadequate Buffer | UP864402 | Both | Both | 0 | 0 | 400 | 400 | Lawn | Lawn | No | No | 3 | 2 | 1 |
| Inadequate Buffer | UP871111 | Both | Both | 0 | 0 | 400 | 400 | Lawn | Lawn | No | No | 3 | 1 | 1 |
| Inadequate Buffer | UP886403 | Left | | 0 | | 700 | | Pasture | Shrubs/Small trees | No | Horses | 3 | 3 | 1 |
| Inadequate Buffer | UP903301 | Both | Both | 0 | 0 | 700 | 700 | Pasture | Pasture | No | Yes | 3 | 3 | 2 |
| Inadequate Buffer | UP926203 | Both | Both | 20 | 0 | 3000 | 3000 | Shrubs/Small Trees | Lawn | No | No | 3 | 2 | 2 |
| Inadequate Buffer | UP102301 | Left | Neither | 5 | | 800 | | Lawn | Forest | No | No | 4 | 3 | 1 |
| Inadequate Buffer | UP103304 | Right | Neither | | 0 | | 300 | Forest | Forest | No | No | 4 | 2 | 2 |
| Inadequate Buffer | UP104301 | Left | Neither | 15 | 15 | 1200 | 1200 | Lawn | Forest | No | No | 4 | 2 | 2 |

| | | | / | $\overline{}$ | $\overline{}$ | | | | | | | | | |
|-------------------|----------|-------|--|------------------|---------------|------------|---------|-----------------------------|--|----------|------------------|-------------|------------|---------------------------------------|
| | | | | / / | | | | | | | Established Live | | | |
| | | | | | | // | | /.x>/ x | | | ablished | / / | / / | / , , |
| | | , | / / | , ₆ 0 | HILL W | diriciding | din ett | Control Land Land Land Land | Land Use Right | | Legio Itel | * / | EN COLLEGE | ability |
| Problem | | _ cjt | & / & | naded vi | dille | HIP'S | GILL) | ndille nd Us | nduls | ocentil. | Les Britte | soct sever | id / stel | KCGE55 |
| | Site | | <u>/ </u> | 7 1/2 | 7 1/2 | <u> </u> | / & | S | (A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B | / &e | | <u>/ 56</u> | <u> </u> | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| Inadequate Buffer | UP200203 | Both | Neither | 25 | 25 | 400 | | Shrubs/Small Trees | Shrubs/Small Trees | INO | NO | 4 | 5 | 2 |
| Inadequate Buffer | UP304202 | Both | Neither | 20 | 20 | 400 | 3400 | Shrubs/Small Trees | Shrubs/Small Trees | No | No | 4 | 3 | 2 |
| Inadequate Buffer | UP401305 | Both | Both | 10 | 10 | 400 | 1100 | Shrubs/Small Trees | Shrubs/Small Trees | No | No | 4 | 3 | 2 |
| Inadequate Buffer | UP504404 | Left | Neither | 0 | | 400 | | Paved | Shrubs/Small trees | No | No | 4 | 1 | 1 |
| Inadequate Buffer | UP506401 | Right | Neither | | 0 | | 300 | Shrubs/Small Trees | Paved | No | No | 4 | 1 | 1 |
| Inadequate Buffer | UP605401 | Both | Both | 0 | 0 | 1000 | 1000 | Lawn | Lawn | No | No | 4 | 2 | 2 |
| Inadequate Buffer | UP607207 | Both | Neither | 0 | 0 | 20 | 400 | Paved | Lawn | No | No | 4 | 4 | 1 |
| Inadequate Buffer | UP610001 | Both | Both | 0 | 0 | 400 | 400 | Paved | Paved | No | No | 4 | 2 | 1 |
| Inadequate Buffer | UP619101 | Left | Neither | 10 | | 600 | | Openfield;parking lot | Forest | No | No | 4 | 1 | 1 |
| Inadequate Buffer | UP620404 | Right | Right | | 0 | | 700 | Forest | Stadium | No | No | 4 | 1 | 1 |
| Inadequate Buffer | UP713302 | Right | Neither | | 0 | | 300 | Forest | Lawn | No | No | 4 | 3 | 3 |
| Inadequate Buffer | UP715302 | Left | Neither | 10 | | 500 | | Shrubs/Small Trees | Forest | No | No | 4 | 3 | 2 |
| Inadequate Buffer | UP722304 | Both | Neither | 0 | 0 | 1100 | 1100 | Lawn | shrubs & small trees | No | No | 4 | 3 | 2 |
| Inadequate Buffer | UP740303 | Both | Neither | 0 | 0 | 300 | 300 | Lawn | Lawn | No | No | 4 | 2 | 1 |
| Inadequate Buffer | UP805301 | Both | Neither | 10 | 15 | 300 | 300 | Lawn | Lawn | No | No | 4 | 2 | 1 |
| Inadequate Buffer | UP842202 | Both | Both | 5 | 20 | 400 | 400 | Lawn | Lawn | No | No | 4 | 3 | 1 |
| Inadequate Buffer | UP853101 | Left | Neither | 0 | | 800 | | Paved | Forest | No | Horses | 4 | 5 | 1 |
| Inadequate Buffer | UP857201 | Both | Both | 0 | 0 | 700 | 250 | Rail road | Lawn | No | No | 4 | 3 | 1 |
| Inadequate Buffer | UP865404 | Right | Right | | 0 | | 400 | Multiflora rose | Lawn | No | No | 4 | 2 | 1 |
| Inadequate Buffer | UP881404 | Left | Left | 0 | | 300 | | Paved | Shrubs/Small Trees | No | Yes | 4 | 1 | 1 |
| Inadequate Buffer | UP900302 | Both | Neither | 30 | 0 | 600 | 800 | Shrubs/Small Trees | Lumber yard | No | No | 4 | 3 | 2 |
| Inadequate Buffer | UP901302 | Right | Neither | | 0 | | 400 | Forest | Shrubs/Small trees | No | No | 4 | 2 | 4 |
| Inadequate Buffer | UP904101 | Right | Both | | 5 | | 300 | Forest | Pasture | No | No | 4 | 1 | 2 |
| Inadequate Buffer | UP905305 | Left | Neither | 10 | | 300 | | Shooting range | Forest | No | No | 4 | 2 | 2 |
| Inadequate Buffer | UP911107 | Right | Neither | 10 | 7 | 300 | 500 | Pasture | Paved | No | No | 4 | 3 | 1 |
| | UP300201 | Both | Both | 0 | 0 | 400 | 500 | Lawn | Lawn | No | No | 5 | 1 | 1 |
| Inadequate Buffer | UP613201 | Both | Both | 10 | 10 | 200 | 200 | Paved | Paved | No | No | 5 | 3 | 1 |
| <u> </u> | UP728101 | Both | Both | 20 | 30 | 200 | 200 | Paved | Paved | No | No | 5 | 5 | 1 |
| | UP728106 | Both | Neither | 10 | 20 | 400 | 300 | Pond | crop field | No | No | 5 | 1 | 1 |
| · · | UP824305 | Right | Neither | | 30 | | 100 | Forest | Shrubs/Small trees | No | No | 5 | 3 | 3 |
| Inadequate Buffer | UP828203 | Left | Left | 10 | | 400 | | baseball field | Forest | No | No | 5 | 2 | 1 |

Inadequate Buffer- Upper Patuxent Watershed in Prince George's County

| 2 rightern | | / si | | naded ni | der Strike | dinight s | Striet Striet | Sand Lee Let | Land Use Right | , Ascellin | Ladisted Live | stott czereit | od Corner | ACCES ⁵ |
|-------------------|----------|-----------|---------|----------|------------|-----------|---------------|--------------|----------------|------------|---------------|---------------|-----------|--------------------|
| Inadequate Buffer | UP836205 | Both | Both | 0 | 0 | 250 | 250 | | Lawn | No | No | 5 | 1 | 1 |
| Inadequate Buffer | UP851101 | Right | Neither | | 0 | | 200 | Forest | Paved | No | No | 5 | 1 | 1 |
| Inadequate Buffer | UP862107 | Left | Neither | 0 | | 150 | | Paved | Forest | No | No | 5 | 5 | 1 |
| Inadequate Buffer | UP871108 | Left | Neither | 20 | | 150 | | Lawn | Forest | No | No | 5 | 1 | 2 |
| Inadequate Buffer | UP875303 | Both | Both | 0 | 0 | 1500 | 1500 | Lawn | Lawn | No | No | 5 | 2 | 2 |
| Inadequate Buffer | UP903302 | Right | Neither | | 0 | | 150 | Forest | Lawn | No | No | 5 | 2 | 2 |
| Inadequate Buffer | UP907101 | Left | Both | 20 | | 1300 | | Lawn | Forest | No | No | 5 | 1 | 1 |
| Inadequate Buffer | UP908102 | Left | Both | 30 | | 200 | | Crop field | Forest | No | No | 5 | 1 | 1 |
| Inadequate Buffer | UP909102 | Left | Both | 25 | | 200 | | Crop field | Forest | No | No | 5 | 1 | 2 |
| Inadequate Buffer | UP910102 | Both | Both | 25 | 5 | 250 | 250 | Paved | Lawn | No | No | 5 | 3 | 1 |

| Problem | Site | Describe | Description | Poteritia de la composição de la composi | cse ^{ute} | jity Cort | ectability Pccess |
|-------------------|----------|--|--|--|--------------------|-----------|----------------------|
| Unusual Condition | UP103301 | Odor/Water Clarity/Sewage Discharge | Sewage leaking from top of manhole into water which is murky, gray, and has strong odor | sewage | 1 | 4 | 2 |
| Unusual Condition | UP907102 | Sewage Discharge | stream blue-gray for a few hundred ft before reaching pipe outfall | sewage | 2 | 5 | 2 |
| Unusual Condition | UP103307 | | Stream stops due to debris in front of random culvert, water possibly running underneath all the debris? | | 3 | 4 | 3 |
| unusual condition | UP205401 | Sewage Discharge | Sewage smell, major erosion | Chanelized | 3 | 5 | 2 |
| Unusual Condition | UP504403 | Piped Steam | Stream piped for 600ft. Has perennial flow. | | 3 | 3 | 1 |
| Unusual Condition | UP508001 | Piped stream | Stream piped for 800 ft. | | 3 | 5 | 2 |
| Unusual Condition | UP604307 | odor, scum, water color, red flock | Waxy film on top, red flock, smells like sewage, runs entire length of stream | | 3 | 3 | 2 |
| Unusual Condition | UP604405 | Piped Steam | Stream piped for 700ft. Has perennial flow. | | 3 | 3 | 1 |
| Unusual Condition | UP614201 | red flock, oil | Heavy gasoline smell, red flock | gas station | 3 | 4 | 3 |
| Unusual Condition | UP719302 | scum, water color, red flock | Murky brown water, full of red flock, scum coating top | | 3 | 4 | 2 |
| Unusual Condition | UP720203 | Piped stream | Stream Piped for 1700 ft | | 3 | 3 | 2 |
| Unusual Condition | UP723303 | Water Clarity/Color | water murky/cloudy, foam on top. Landowner complains of change in color | | 3 | 4 | 2 |
| Unusual Condition | UP730303 | | road wing wall cracked, collapsing into stream | | 3 | 3 | 1 |

| | | / / | | | | $\overline{}$ | |
|-------------------|----------|------------------------------|---|---|-------------------|---------------|----------------------|
| Problem | site | Describe | Description | Potertiante | cge ^{NR} | gittel COTT | ectability Access |
| Unusual Condition | UP730304 | | pipe outfall exposed, rusting, coming apart | | 3 | 3 | 1 |
| Unusual Condition | UP734306 | | concrete around culvert falling, collapsing into stream | | 3 | 4 | 1 |
| Unusual Condition | UP738207 | Sewage discharge | redish brown particle discharge, septic smell, not red flock | | 3 | 4 | 3 |
| Unusual Condition | UP804308 | Beaver Dam | Gigantic beaver dam has blocked stream totally and has created small lake wetland on other side | beavers | 3 | 4 | 2 |
| Unusual Condition | UP819401 | Discharge | red oily discharge from man hole | man hole | 3 | 3 | 2 |
| Unusual Condition | UP824301 | | stream runs underground, lots of silt on top of stream, appears dry, could be fish barrier | | 3 | 5 | 3 |
| Unusual Condition | UP841101 | | pond in front of industrial site. Holds run-off above stream. There is a land slide from industrial site-R&S construction company | industrial work site R&S Construction Co. Inc. Concrete Work (301)805- 4922 (a neighbor of the site) | 3 | 5 | 1 |
| Unusual Condition | UP866403 | excessive erosion | excessive erosion below manhole | man hole | 3 | 1 | 1 |
| Unusual Condition | UP885408 | | beaver flooding out more than 2000 ft | beaver near race track road | 3 | 2 | 1 |
| Unusual Condition | UP888402 | Red Flock | Red Flock below remains of pipe | run-off, Bowie Race track storm water | 3 | 2 | 1 |
| Unusual Condition | UP509405 | Piped Steam | Stream piped for 600ft. | | 4 | 5 | 1 |
| Unusual Condition | UP615203 | Red Flock | Red flock for 800ft | business and hwy upstream | 4 | 4 | 1 |
| Unusual Condition | UP718304 | scum, water color, red flock | Murky, red flock, waxy scum on top | run-off? | 4 | 2 | 2 |

| Problem | Site. | Describe | Descriptor | Poteritalise | Serie Serie | zitt ^d Conf | kcess |
|-------------------|----------|-------------------|---|---|-------------|------------------------|-------|
| Unusual Condition | UP721204 | red flock | red flock for 820ft | | 4 | 4 | 2 |
| Unusual Condition | UP808303 | | erosion control is failing, black cloth and rip rap | | 4 | 3 | 2 |
| Unusual Condition | UP833203 | red flock | 400ft | stormwater draining | 4 | 3 | 3 |
| Unusual Condition | UP836202 | red flock | 200ft | unknown | 4 | 2 | 1 |
| Unusual Condition | UP849202 | red flock | 2050ft | unknown | 4 | 3 | 1 |
| Unusual Condition | UP860201 | red flock | 2000ft | Below underground, part the stream, maybe road & house runoff | 4 | 3 | 2 |
| Unusual Condition | UP906103 | odor, water color | water brown, slight odor, scum | development, construction | 4 | 1 | 2 |
| Unusual Condition | UP106402 | oil | | runoff development | 5 | 2 | 1 |
| Unusual Condition | UP203203 | red flock | 200 ft of red flock | | 5 | 3 | 3 |
| Unusual Condition | UP618202 | red flock | Red flock goes for 250 ft | | 5 | 3 | 5 |
| Unusual Condition | UP704301 | Piped Steam | Stream piped for 2400ft. | | 5 | 3 | 1 |
| Unusual condition | UP730305 | | pipe outfall collapsed | | 5 | 3 | 1 |
| Unusual Condition | UP738203 | Odor | strong bengay scent covering several hundred ft, no apparent source | | 5 | 5 | 4 |
| Unusual Condition | UP738208 | | piped stream for 100 ft | | 5 | 5 | 1 |

| problem | Site | Describe | Description | | Poleticante | Seve | zitt ^y Cort | RC ES |
|-------------------|----------|--------------|--|----------|-------------|------|------------------------|-------|
| Unusual Condition | UP828201 | Red flock | Red Flock | | | 5 | 3 | 3 |
| Comment | UP110403 | | Massive erosion of right bank of stream | | | | | |
| Comment | UP312114 | | Pipe outfall 20 ft from right bank has steady water flow for 50 ft until reaching stream, possible red flock | | | | | |
| Comment | UP401301 | | Water running over thick orange film that covers a pipe | | | | | |
| Comment | UP404305 | | Culvert for road crossing with a dam behind it is backing up water | | | | | |
| Comment | UP405303 | | Culvert for road crossing with dam behind is backing up water | | | | | |
| Comment | UP413402 | | Tree Blockage | flooding | | | | |
| Comment | UP415101 | | Stream not shown on field map but is in the stream layer sent from the county | | | | | |
| Comment | UP616404 | | SHA markers for wetland- trib not shown on maps | | | | | |
| Comment | UP737202 | | erosion connected to site 742201ES, ht 25ft | | | | | |
| Comment | UP737204 | | erosion connected to site 742201ES, ht 25 ft | | | | | |
| Comment | UP738201 | | erosion connected to site 741202ES, ht of 90ft | | | | | |
| Comment | UP810303 | Fish Barrier | Pond causing fish barrier | unknown | | | | |
| Comment | UP854105 | | stream in a different position than shown on map | | | | | |

Unusual Condition- Upper Patuxent Watershed in Prince George's County

| Problem | site | Describe | Description | Poterital | cselected Confederation |
|---------|----------|----------|--|----------------------------------|-------------------------|
| Comment | UP869302 | | around stream all cleared due to power lines except for about 20 ft of multiflora rose, tagged as "wetlands" | | |
| Comment | UP871304 | | collapsed remains of bridge near where stream channeled into pipe | | |
| Comment | UP888404 | Erosion | Erosion | Erosion, tree uprooted in stream | |
| Comment | UP404301 | | Pipe outfall placed on wrong map; should be located on map 405 | | |

| | | | , | | | | | $\overline{}$ | | | | | |
|--------------------|----------|-----------------|---------------------------------------|-------------------|-------------------|-------------|-----------------|---------------|----------|-------------------|-------------|---------------------------------------|---------------------------------------|
| | , | | | | | | | | | (a) | | | |
| | | | | Intriduction Lend | / | shiral Flow | direntation Ver | Jin Charnel | Ciossing | indove the | the one | | dadiity Access |
| Problem | | 8 | _ XC | | Mer Set | enrita" | diment | | | inal no | Senei Cenei | ,it ^y / ₅₁₇ 6 | hcess |
| | gite | Z4Ze | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | / ver | / ² 60 | / 5º | 100 | 2 20° | / 🔊 | \ \sigma_{\infty} | / SET | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| Channel Alteration | UP810304 | Concrete | 60 | 450 | Yes | No | NO | NO | | | 2 | 4 | 1 |
| Channel Alteration | UP404308 | Earth channel | 120 | 1100 | Yes | Yes | No | No | | | 3 | 3 | 2 |
| Channel Alteration | UP204202 | Concrete | 24 | 250 | Yes | No | No | No | 000 | 200 | 4 | 5 | 1 |
| Channel Alteration | UP605402 | Earth channel | 52 | 400 | No | Yes | Yes | Below | 200 | 200 | 4 | 2 | 1 |
| Channel Alteration | | Rip-rap | 84 | 110 | Yes | No | Yes | Below | | 110 | 4 | 3 | 2 |
| Channel Alteration | | Rip-rap | 48 | 50 | Yes | No | No | Both | 25 | 25 | 4 | 3 | 1 |
| Channel Alteration | | Rip-rap | 5 | 50 | Yes | No | Yes | No | | | 4 | 3 | 2 |
| Channel Alteration | | Rip-rap | 24 | 400 | No | No | Yes | No | | | 4 | 2 | 2 |
| Channel Alteration | | Rip-rap | 36 | 200 | No | No | Yes | Above | 200 | | 4 | 1 | 1 |
| Channel Alteration | UP104401 | Concrete blocks | 52 | 200 | Yes | No | Yes | No | | | 5 | 1 | 1 |
| Channel Alteration | UP109406 | Concrete blocks | 24 | 150 | Yes | Yes | Yes | Below | | 150 | 5 | 3 | 2 |
| Channel Alteration | UP318203 | Rip-rap | 96 | 200 | Yes | No | No | Both | 100 | 100 | 5 | 3 | 1 |
| Channel Alteration | UP410302 | Rip-rap | 36 | 60 | Yes | Yes | No | No | | | 5 | 3 | 3 |
| Channel Alteration | UP504401 | Concrete | 12 | 100 | Yes | No | Yes | No | | | 5 | 1 | 1 |
| Channel Alteration | UP504406 | Concrete | 8 | 20 | No | Yes | No | No | | | 5 | 3 | 3 |
| Channel Alteration | UP508402 | Rip-rap | 16 | 600 | Yes | Yes | Yes | above | 300 | 300 | 5 | 2 | 1 |
| Channel Alteration | UP613202 | Earth channel | 80 | 500 | No | Yes | Yes | No | | | 5 | 2 | 1 |
| Channel Alteration | UP619104 | Metal pipe | 36 | 60 | Yes | Yes | No | No | | | 5 | 3 | 1 |
| Channel Alteration | UP620402 | Rip-rap | 12 | 30 | Yes | Yes | No | No | | | 5 | 1 | 2 |
| Channel Alteration | UP718301 | Rip-rap | 24 | 100 | Yes | No | No | Below | | 100 | 5 | 3 | 1 |
| Channel Alteration | UP720201 | Rip-rap | 48 | 20 | No | No | Yes | No | | | 5 | 3 | 1 |
| Channel Alteration | UP728107 | Earth channel | 18 | 200 | Yes | Yes | No | No | | | 5 | 1 | 1 |
| Channel Alteration | UP817403 | Gabion | 24 | 300 | Yes | Yes | No | Below | | 300 | 5 | 2 | 1 |
| Channel Alteration | UP826301 | Rip-rap | 72 | 100 | No | No | No | Below | | 100 | 5 | 3 | 1 |
| Channel Alteration | UP865405 | Rip-rap | 8 | 100 | Yes | Yes | No | Below | | 100 | 5 | 2 | 1 |
| Channel Alteration | UP875302 | Earth channel | 24 | 700 | No | No | Yes | Below | | 700 | 5 | 2 | 1 |
| Channel Alteration | UP876301 | Rip-rap | 48 | 50 | No | No | No | No | | | 5 | 2 | 2 |
| Channel Alteration | UP876302 | Concrete | 12 | 600 | No | No | No | No | | | 5 | 3 | 4 |
| Channel Alteration | UP876305 | Rip-rap | 120 | 50 | No | Yes | No | No | | | 5 | 1 | 2 |
| Channel Alteration | UP881402 | Stone Blocks | 82 | 200 | Yes | Yes | Yes | No | | | 5 | 3 | 3 |
| Channel Alteration | UP886402 | Rip-rap | 52 | 500 | Yes | Yes | No | No | | | 5 | 3 | 2 |

| Problem | Site | The | /< | Jekodis Officiasi | je įtent | Adhiteet Gride | Churc Trighte | c, e, te d | ity College | kcess |
|---------------|----------|------------------------|----|-------------------|-------------|----------------|--------------------------------|------------|-------------|-------|
| Trash Dumping | UP102303 | Yard Waste | 7 | | Single Site | Yes Public | | 3 | 2 | 3 |
| Trash Dumping | UP109403 | Tires | 3 | | Single Site | Yes Unknown | | 3 | 2 | 2 |
| Trash Dumping | UP110401 | Residential | 3 | | Large Area | Yes Unknown | | 3 | 2 | 2 |
| Trash Dumping | UP110405 | Residential/Yard Waste | 4 | 100 ft | Large Area | Yes Unknown | | 3 | 2 | 3 |
| Trash Dumping | UP404303 | Yard Waste | 10 | | Single Site | Yes Unknown | | 3 | 2 | 3 |
| Trash Dumping | UP730308 | Residential | 4 | | Large Area | No Private | | 3 | 3 | 3 |
| Trash Dumping | UP731303 | Tires/Appliances | 5 | | Single Site | No Unknown | | 3 | 3 | 3 |
| Trash Dumping | UP734302 | Old farm machines | 5 | | Large Area | No Private | | 3 | 3 | 3 |
| Trash Dumping | UP734303 | Yard Waste | | 5 dumptrucks | Single Site | No Private | | 3 | 3 | 2 |
| Trash Dumping | UP813408 | Construction | 3 | | Large Area | Yes Unknown | | 3 | 2 | 3 |
| Trash Dumping | UP886406 | Residential/Yard Waste | 8 | | Large Area | Yes Unknown | | 3 | 2 | 2 |
| Trash Dumping | UP888401 | Yard Waste/Tires | 15 | | Large Area | Yes Unknown | | 3 | 2 | 1 |
| Trash Dumping | UP900303 | Lumber | | 7 dumptrucks | Large Area | No Private | | 3 | 3 | 2 |
| Trash Dumping | UP905304 | Residential | 4 | | Large Area | Yes Private | | 3 | 2 | 2 |
| Trash Dumping | UP622101 | Residential | 1 | | Single Site | No Public | | 4 | 3 | 5 |
| Trash Dumping | UP715305 | Yard Waste | 3 | | Single Site | Yes Private | | 4 | 2 | 3 |
| Trash Dumping | UP723302 | Yard Waste | 3 | | Single Site | Yes Private | | 4 | 2 | 3 |
| Trash Dumping | UP731305 | Tires/Appliances | | 3 dumptrucks | Single Site | No Private | | 4 | 3 | 2 |
| Trash Dumping | UP834401 | Floatables | 3 | | Large Area | Yes Unknown | | 4 | 1 | 3 |
| Trash Dumping | UP836203 | Residential | 2 | | Single Site | Yes Public | | 4 | 1 | 3 |
| Trash Dumping | UP841102 | Industrial | 1 | | Large Area | Yes Private | Porto Construction/other sites | 4 | 3 | 2 |
| Trash Dumping | UP885405 | Mixed | 2 | | Large Area | Yes Unknown | | 4 | 2 | 4 |
| Trash Dumping | UP103303 | Yard Waste | 3 | | Single Site | Yes Unknown | | 5 | 1 | 2 |
| Trash Dumping | UP107401 | Floatables | 1 | | Single Site | Yes Private | | 5 | 2 | 2 |
| Trash Dumping | UP322204 | Floatables | 1 | | Single Site | Yes Public | | 5 | 1 | 1 |
| Trash Dumping | UP607206 | Residential | 1 | | Large Area | Yes Unknown | | 5 | 1 | 2 |
| Trash Dumping | UP801301 | Residential | 2 | | Single Site | Yes Private | | 5 | 1 | 3 |
| Trash Dumping | UP803301 | Residential | 2 | | Single Site | Yes Private | | 5 | 1 | 3 |
| Trash Dumping | UP881401 | Residential | 2 | | Single Site | Yes Private | | 5 | 1 | 3 |
| Trash Dumping | UP911102 | Residential/Tires | 1 | | Single Site | Yes Private | | 5 | 1 | 1 |
| Trash Dumping | UP926201 | Residential/Yard Waste | 1 | | Single Site | Yes Private | | 5 | 1 | 2 |

| Problem | /sjte | L _g calion de r | 14 ⁶ | \display="block" | aneterit | N. S. | /\$ | Straigs Co | of Odos | se ^{yeti} | th Collec | RCESS NCESS |
|--------------|----------|----------------------------|------------------|------------------|----------|---|-----|------------|---------|--------------------|-----------|-------------|
| Exposed Pipe | UP814401 | Above stream | Smooth metal | 2 | 10 | Water supply | Yes | clear | none | 2 | 3 | 1 |
| Exposed Pipe | UP885409 | Exposed manhole | Smooth metal | 24 | 3 | Sewage | Yes | clear | Sewage | 2 | 1 | 1 |
| Exposed Pipe | UP104305 | Bottom of stream | Smooth metal | 12 | 5 | Unknown | No | | | 3 | 4 | 2 |
| Exposed Pipe | UP604402 | Above stream | Smooth metal | 12 | 25 | Sewage | No | | fishy | 3 | 4 | 1 |
| Exposed Pipe | UP620407 | Along stream bank | Concrete | 48 | 6 | Unknown | Yes | soapy | | 3 | 3 | 2 |
| Exposed Pipe | UP809301 | Bottom of stream | Smooth metal | 12 | 2 | Sewage | No | | none | 3 | 4 | 2 |
| Exposed Pipe | UP814404 | Bottom of stream | Plastic | 2 | 15 | Unknown | No | | | 3 | 1 | 1 |
| Exposed Pipe | UP864001 | Exposed manhole | Metal manhole | 36 | 3 | Sewage | No | | | 3 | 3 | 1 |
| Exposed Pipe | UP314203 | Exposed manhole | Metal manhole | 36 | 3 | Sewage | No | | | 4 | 1 | 1 |
| Exposed Pipe | UP322202 | Above stream | Smooth metal | 6 | 25 | Unknown | No | | | 4 | 4 | 2 |
| Exposed Pipe | UP508401 | Along stream bank | Smooth metal | 12 | 2 | Unknown | No | | Sewage | 4 | 3 | 2 |
| Exposed Pipe | UP604313 | Bottom of stream | Smooth metal | 2 | 3 | Unknown | No | | | 4 | 3 | 2 |
| Exposed Pipe | UP721203 | Exposed manhole | Metal manhole | 36 | 2 | Sewage | No | | | 4 | 1 | 1 |
| Exposed Pipe | UP814403 | Bottom of stream | Plastic | 6 | 4 | Unknown | No | | none | 4 | 1 | 1 |
| Exposed Pipe | UP881403 | Exposed manhole | Metal manhole | 24 | 2 | Sewage | No | | | 4 | 1 | 2 |
| Exposed Pipe | UP110402 | Along stream bank | Smooth metal | 6 | 8 | Unknown | No | | | 5 | 3 | 3 |
| Exposed Pipe | UP201201 | Exposed manhole | Metal manhole | 32 | 1 | Sewage | No | | | 5 | 1 | 2 |
| Exposed Pipe | UP308401 | Exposed manhole | Smooth metal | 24 | 1 | Stormwater | No | | | 5 | 1 | 1 |
| Exposed Pipe | UP319202 | Exposed manhole | Metal manhole | 36 | 1 | Sewage | No | | | 5 | 1 | 3 |
| Exposed Pipe | UP607203 | Exposed manhole | Metal manhole | 24 | 2.5 | Sewage | No | | | 5 | 1 | 1 |
| Exposed Pipe | UP616401 | Exposed manhole | Corrugated metal | 24 | 2 | Sewage | No | | | 5 | 1 | 1 |
| Exposed Pipe | UP616407 | Exposed manhole | Smooth metal | 24 | 4 | Stormwater | No | | | 5 | 1 | 1 |
| Exposed Pipe | UP720202 | Exposed manhole | Metal manhole | 36 | 2 | Sewage | No | | | 5 | 1 | 1 |
| Exposed Pipe | UP843204 | Bottom of stream | Smooth metal | 24 | 2 | Sewage | No | | | 5 | 3 | 2 |
| Exposed Pipe | UP885401 | Exposed manholes | Metal manhole | 24 | 1 | Sewage | No | | Sewage | 5 | 2 | 4 |
| Exposed Pipe | UP885406 | Exposed manhole | Metal manhole | 24 | 3 | Sewage | No | | Sewage | 5 | 1 | 1 |

In/Near Stream Construction- Upper Patuxent Watershed in Prince George's County

| Probert | , sie | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Activity Sedime | ntcontrol | why thedequate | ¢1¢6 | Sedir. | Serri C | | Location | Severity |
|--------------|----------|--|-----------------|----------------------------|----------------------|------|--------|---------|----------------|--------------|----------|
| Construction | UP829202 | Residential | Inadequate | Depositing in stream, silt | fense not sufficient | Yes | 1500 | | 450 and Martha | 's Choice Rd | 3 |
| Construction | UP906102 | Residential | Adequate | | | No | | | Stan fey rd | | 5 |

| problem | site | Substitute | fritzedigeti | Skiller to | Choung the la | got settlert et | , velocity/fo | ^E Chil | Veilefiglion | BankCon | AND TO SHEET OF SHEET |
|---------------------|----------|------------|--------------|------------|---------------|-----------------|---------------|-------------------|--------------|------------|--|
| Green Branch | | | _ | _ | | | | | | | |
| Representative Site | UP602202 | Marginal | Poor | Poor | Optimal | Suboptimal | Poor | Suboptimal | Optimal | Optimal | Optimal |
| Representative Site | UP603301 | Poor | Poor | Marginal | Optimal | Suboptimal | Poor | Suboptimal | Suboptimal | Marginal | Marginal |
| Representative Site | UP610403 | Marginal | Poor | Poor | Marginal | Marginal | Marginal | Optimal | Marginal | Suboptimal | Marginal |
| Representative Site | UP614204 | Suboptimal | Marginal | Marginal | Optimal | Suboptimal | Suboptimal | Marginal | Poor | Poor | Optimal |
| Representative Site | UP618201 | Marginal | Poor | Marginal | Optimal | Suboptimal | Marginal | Suboptimal | Poor | Marginal | Optimal |
| Representative Site | UP618205 | Marginal | Poor | Marginal | Optimal | Suboptimal | Poor | Suboptimal | Optimal | Marginal | Optimal |
| Representative Site | UP619103 | Suboptimal | Suboptimal | Suboptimal | Optimal | Suboptimal | Suboptimal | Suboptimal | Suboptimal | Poor | Optimal |
| Representative Site | UP622402 | Marginal | Poor | Poor | Optimal | Marginal | Marginal | Suboptimal | Poor | Poor | Suboptimal |
| Representative Site | UP624103 | Suboptimal | Marginal | Suboptimal | Optimal | Marginal | Suboptimal | Suboptimal | Suboptimal | Marginal | Optimal |
| Representative Site | UP624107 | Poor | Poor | Marginal | Optimal | Optimal | Marginal | Optimal | Suboptimal | Suboptimal | Optimal |
| Average | | Marginal | Poor | Marginal | Optimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Marginal | Suboptimal |
| Honey Branch | | | | | | | | | | | |
| Representative Site | UP925201 | Suboptimal | Suboptimal | Marginal | Optimal | Optimal | Suboptimal | Optimal | Suboptimal | Suboptimal | Poor |
| Representative Site | UP928401 | Optimal | Suboptimal | Suboptimal | Optimal | Suboptimal | Suboptimal | Optimal | Suboptimal | Suboptimal | Optimal |
| Average | | Suboptimal | Suboptimal | Suboptimal | Optimal | Optimal | Suboptimal | Optimal | Suboptimal | Suboptimal | Suboptimal |
| Horsepen Branch | | | | | | | | | | | |
| Representative Site | UP805304 | Marginal | Poor | Marginal | Optimal | Marginal | Marginal | Suboptimal | Marginal | Suboptimal | Suboptimal |
| Representative Site | UP818401 | Marginal | Marginal | Poor | Suboptimal | Marginal | Marginal | Optimal | Suboptimal | Optimal | Suboptimal |
| Representative Site | UP824304 | Suboptimal | Marginal | Suboptimal | Optimal | Suboptimal | Suboptimal | Suboptimal | Marginal | Marginal | Suboptimal |
| Representative Site | UP830202 | Marginal | Poor | Marginal | Optimal | Marginal | Marginal | Suboptimal | Suboptimal | Suboptimal | Optimal |
| Representative Site | UP832203 | Suboptimal | Poor | Suboptimal | Optimal | Suboptimal | Marginal | Suboptimal | Marginal | Suboptimal | Poor |
| Representative Site | UP835107 | Poor | Poor | Suboptimal | Optimal | Suboptimal | Suboptimal | Optimal | Marginal | Suboptimal | Optimal |
| Representative Site | UP835203 | Marginal | Marginal | Optimal | Optimal | Suboptimal | Suboptimal | Suboptimal | Marginal | Marginal | Optimal |
| Representative Site | UP838101 | Suboptimal | Poor | Optimal | Optimal | Marginal | Suboptimal | Suboptimal | Marginal | Marginal | Optimal |
| Representative Site | UP841201 | Poor | Poor | Marginal | Optimal | Optimal | Marginal | Suboptimal | Optimal | Optimal | Optimal |
| Representative Site | UP843201 | Poor | Poor | Poor | Optimal | Marginal | Marginal | Marginal | Marginal | Marginal | Suboptimal |
| Representative Site | UP846202 | Marginal | Poor | Marginal | Optimal | Optimal | Marginal | Suboptimal | Suboptimal | Optimal | Optimal |
| Representative Site | UP849204 | Poor | Poor | Suboptimal | Optimal | Marginal | Suboptimal | Suboptimal | Marginal | Marginal | Optimal |
| Representative Site | UP850202 | Marginal | Marginal | Suboptimal | Optimal | Suboptimal | Suboptimal | Optimal | Marginal | Poor | Optimal |
| Representative Site | UP851102 | Marginal | Marginal | Marginal | Suboptimal | Suboptimal | Marginal | Optimal | Suboptimal | Suboptimal | Optimal |
| Representative Site | UP854103 | Marginal | Suboptimal | Marginal | Optimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Poor | Optimal |
| Representative Site | UP862106 | Suboptimal | Marginal | Suboptimal | Optimal | Suboptimal | Optimal | Optimal | Suboptimal | Poor | Optimal |
| Representative Site | UP863102 | Suboptimal | Marginal | Suboptimal | Optimal | Poor | Suboptimal | Suboptimal | Marginal | Poor | Optimal |
| Representative Site | UP871109 | Suboptimal | Suboptimal | Suboptimal | Optimal | Marginal | Optimal | Suboptimal | Suboptimal | Marginal | Optimal |
| Representative Site | UP871301 | Marginal | Suboptimal | Suboptimal | Optimal | Optimal | Marginal | Optimal | Optimal | Suboptimal | Suboptimal |
| Representative Site | UP885403 | Marginal | Poor | Optimal | Suboptimal | Suboptimal | Suboptimal | Optimal | Suboptimal | Marginal | Optimal |
| Representative Site | UP888403 | Suboptimal | Marginal | Suboptimal | Suboptimal | Poor | Suboptimal | Suboptimal | Marginal | Suboptimal | Marginal |
| Average | | Marginal | Marginal | Suboptimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Marginal | Marginal | Suboptimal |

| Problem | Sife | Substrate | (:http://def | ness sheller to | Charles Charles | ior selfereit | or Jelojilyte | in ton | Ve Seguitor | Bank Conti | Enda Tederation |
|---------------------|----------|------------|--------------|-----------------|-----------------|---------------|---------------|------------|-------------|------------|-----------------|
| Marsh Branch | | | | | | | | | | | |
| Representative Site | UP409301 | Marginal | Marginal | Marginal | Optimal | Marginal | Optimal | Suboptimal | Marginal | Poor | Suboptimal |
| Representative Site | UP412403 | Suboptimal | Suboptimal | Suboptimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Marginal | Marginal | Marginal |
| Average | | Suboptimal | Suboptimal | Suboptimal | Optimal | Marginal | Optimal | Suboptimal | Marginal | Marginal | Suboptimal |
| Mill Branch | | | | | | | | | | | |
| Representative Site | UP705302 | Marginal | Marginal | Suboptimal | Optimal | Optimal | Marginal | Suboptimal | Optimal | Optimal | Optimal |
| Representative Site | UP719304 | Marginal | Poor | Marginal | Optimal | Suboptimal | Marginal | Suboptimal | Marginal | Marginal | Suboptimal |
| Representative Site | UP721205 | Suboptimal | Suboptimal | Marginal | Optimal | Suboptimal | Suboptimal | Suboptimal | Marginal | Marginal | Optimal |
| Representative Site | UP726402 | Poor | Poor | Marginal | Optimal | Optimal | Poor | Optimal | Suboptimal | Optimal | Suboptimal |
| Representative Site | UP730309 | Marginal | Poor | Suboptimal | Optimal | Suboptimal | Optimal | Optimal | Optimal | Marginal | Optimal |
| Representative Site | UP733301 | Suboptimal | Marginal | Marginal | Optimal | Suboptimal | Marginal | Optimal | Optimal | Suboptimal | Optimal |
| Representative Site | UP734301 | Poor | Poor | Suboptimal | Optimal | Suboptimal | Marginal | Suboptimal | Marginal | Poor | Optimal |
| Representative Site | UP737201 | Marginal | Marginal | Suboptimal | Optimal | Suboptimal | Suboptimal | Optimal | Marginal | Marginal | Optimal |
| Representative Site | UP738204 | Suboptimal | Marginal | Suboptimal | Optimal | Marginal | Suboptimal | Optimal | Poor | Poor | Optimal |
| Average | | Marginal | Marginal | Suboptimal | Optimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Marginal | Optimal |
| Mount Nebo Branch | | | | | | | | | | | |
| Representative Site | UP901303 | Poor | Poor | Suboptimal | Optimal | Optimal | Poor | Optimal | Marginal | Poor | Suboptimal |
| Representative Site | UP905302 | Poor | Poor | Suboptimal | Optimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Marginal | Optimal |
| Representative Site | UP906101 | Marginal | Poor | Marginal | Optimal | Optimal | Poor | Optimal | Optimal | Poor | Suboptimal |
| Representative Site | UP908101 | Marginal | Suboptimal | Suboptimal | Optimal | Optimal | Marginal | Optimal | Suboptimal | Marginal | Optimal |
| Representative Site | UP910101 | Marginal | Marginal | Marginal | Optimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Suboptimal | Optimal |
| Representative Site | UP911103 | Poor | Poor | Poor | Optimal | Optimal | Dry | Dry | Optimal | Optimal | Optimal |
| Average | | Marginal | Marginal | Marginal | Optimal | Optimal | Marginal | Optimal | Suboptimal | Marginal | Optimal |
| Tributary 1 | | | | | | | | | | | |
| Representative Site | UP104302 | Marginal | Poor | Marginal | Optimal | Marginal | Marginal | Suboptimal | Suboptimal | Suboptimal | Marginal |
| Representative Site | UP109402 | Suboptimal | Suboptimal | Suboptimal | Optimal | Marginal | Suboptimal | Marginal | Marginal | Poor | Marginal |
| Representative Site | UP111401 | Poor | Poor | Marginal | Suboptimal | Poor | Suboptimal | Suboptimal | Suboptimal | Marginal | Suboptimal |
| Average | | Marginal | Marginal | Marginal | Optimal | Marginal | Suboptimal | Suboptimal | Suboptimal | Marginal | Marginal |
| Tributary 2 | | | | | | | | | | | |
| Representative Site | UP203204 | Optimal | Marginal | Marginal | Optimal | Suboptimal | Poor | Suboptimal | Optimal | Optimal | Optimal |
| Tributary 3 | | | | | | | | | | | |
| Representative Site | UP301201 | Poor | Poor | Poor | Suboptimal | Marginal | Poor | Optimal | Optimal | Optimal | Poor |
| Representative Site | UP304201 | Marginal | Marginal | Marginal | Optimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Suboptimal | Marginal |
| Representative Site | UP307204 | Poor | Poor | Suboptimal | Suboptimal | Marginal | Marginal | Suboptimal | Suboptimal | Suboptimal | Suboptimal |
| Representative Site | UP309103 | Suboptimal | Marginal | Suboptimal | Optimal | Suboptimal | Suboptimal | Suboptimal | Optimal | Suboptimal | Suboptimal |
| Representative Site | UP310205 | Marginal | Marginal | Marginal | Suboptimal | Suboptimal | Marginal | Suboptimal | Suboptimal | Suboptimal | Marginal |
| Representative Site | UP313101 | Marginal | Marginal | Marginal | Suboptimal | Marginal | Marginal | Suboptimal | Optimal | Suboptimal | Marginal |
| Representative Site | UP314201 | Marginal | Marginal | Marginal | Suboptimal | Suboptimal | Marginal | Suboptimal | Poor | Suboptimal | Suboptimal |
| Representative Site | UP315202 | Marginal | Poor | Poor | Suboptimal | Marginal | Marginal | Optimal | Suboptimal | Suboptimal | Marginal |
| Representative Site | UP317203 | Suboptimal | Marginal | Marginal | Suboptimal | Suboptimal | Suboptimal | Suboptimal | Marginal | Poor | Suboptimal |
| Representative Site | UP319201 | Suboptimal | Poor | Marginal | Suboptimal | Marginal | Marginal | Suboptimal | Suboptimal | Suboptimal | Optimal |
| Representative Site | UP321201 | Poor | Poor | Suboptimal | Optimal | Poor | Optimal | Suboptimal | Optimal | Suboptimal | Optimal |
| Representative Site | UP322205 | Marginal | Poor | Marginal | Optimal | Poor | Suboptimal | Suboptimal | Optimal | Optimal | Optimal |
| Average | | Marginal | Poor | Marginal | Suboptimal | Marginal | Marginal | Suboptimal | Suboptimal | Suboptimal | Suboptimal |

Representative Sites A

| Progress | Site | Substrate | Lintegueet | gretter for | Chapte of | or sedifiert eit | or Velorithing | GET FLOW | Vedetajidi. | San Conti | Exparat esperator |
|---------------------|----------|------------|------------|-------------|------------|------------------|----------------|------------|-------------|------------|-------------------|
| Tributary 4 | | | | | | | | | | | |
| Representative Site | UP505404 | Marginal | Suboptimal | Marginal | Marginal | Suboptimal | Marginal | Suboptimal | Suboptimal | Suboptimal | Suboptimal |
| Representative Site | UP511401 | Suboptimal | Suboptimal | Suboptimal | Optimal | Optimal | Optimal | Optimal | Suboptimal | Marginal | Optimal |
| | | Suboptimal | Suboptimal | Suboptimal | Suboptimal | Optimal | Suboptimal | Optimal | Suboptimal | Suboptimal | Optimal |

| | | | the C | n o | 80 0 | ifte o | ur / | n Pod Bottom Type |
|---------------------|----------|---------|---------|------------|-----------|---------|------|-------------------|
| Problem | Site | width R | Width 2 | ur width P | Sd Define | Jedin's | | Dod Battom Type |
| Green Branch | | | | | | | | |
| Representative Site | UP602202 | | 36 | | | 3 | | Silt |
| Representative Site | UP603301 | | | | | | | Sand |
| Representative Site | UP610403 | 6 | 36 | 4 | 2 | 10 | 4 | cobble |
| Representative Site | UP614204 | 4 | 36 | 48 | 1 | 8 | 48 | Gravel |
| Representative Site | UP618201 | 36 | 52 | 36 | 3 | 2 | 8 | Sand |
| Representative Site | UP618205 | | 54 | | | 1 | | Silt |
| Representative Site | UP619103 | 24 | 30 | 60 | 1 | 6 | 24 | cobble |
| Representative Site | UP622402 | 12 | 24 | 6 | 8 | 48 | 4 | Sand |
| Representative Site | UP624103 | 12 | 60 | 70 | 3 | 6 | 12 | Sand |
| Representative Site | UP624107 | | | | | | | Sand |
| Honey Branch | | | | | | | | |
| Representative Site | UP925201 | 36 | 48 | 96 | 8 | 4 | 40 | Sand |
| Representative Site | UP928401 | 4 | 6 | 48 | 8 | 12 | 12 | Gravel |
| Horsepen Branch | | | | | | | | |
| Representative Site | UP805304 | 36 | 36 | 72 | 2 | 4 | 12 | Silt |
| Representative Site | UP818401 | 4 | 10 | 6 | 1 | 24 | 4 | Silt |
| Representative Site | UP824304 | 60 | 48 | 60 | 2 | 3 | 12 | Silt |
| Representative Site | UP830202 | 18 | 18 | 18 | 12 | 8 | 12 | Silt |
| Representative Site | UP832203 | 36 | 42 | 42 | 12 | 8 | 14 | Silt |
| Representative Site | UP835107 | 12 | 108 | 108 | 4 | 10 | 18 | Silt |
| Representative Site | UP835203 | 24 | 48 | 48 | 1 | 4 | 12 | Gravel |
| Representative Site | UP838101 | 36 | 96 | 96 | 6 | 4 | 24 | Sand |
| Representative Site | UP841201 | 14 | 24 | | 1 | 2 | 3 | Silt |
| Representative Site | UP843201 | 12 | 18 | 36 | 1 | 2 | 4 | Sand |
| Representative Site | UP846202 | 12 | 36 | 60 | 1 | 2 | 12 | Silt |
| Representative Site | UP849204 | 12 | 48 | 72 | 4 | 4 | 12 | Silt |
| Representative Site | UP850202 | 20 | 72 | 144 | 3 | 7 | 36 | Silt |
| Representative Site | UP851102 | 36 | 84 | | 4 | 6 | 8 | Silt |
| Representative Site | UP854103 | 30 | 36 | 48 | 1 | 4 | 12 | Gravel |
| Representative Site | UP862106 | 24 | 84 | 84 | 6 | 8 | 18 | Silt |
| Representative Site | UP863102 | 24 | 144 | 144 | 4 | 4 | 12 | Gravel |
| Representative Site | UP871109 | 60 | 84 | 180 | 3 | 3 | 36 | Gravel |
| Representative Site | UP871301 | 6 | 36 | 48 | 1.5 | 2 | 6 | Gravel |
| Representative Site | UP885403 | 6 | 24 | 48 | 24 | 15 | 52 | sand |
| Representative Site | UP888403 | 6 | 15 | 12 | 48 | 6 | 52 | Sand |

| | | | the / a | ur / o | s ^d / ø | the / | ur / | 00y \1/160 |
|---------------------|----------|---------|---------|------------|--------------------|---------|---------|------------------|
| 2 robbern | Site | width A | width 2 | ur width P | Sd Definit | Degth 2 | ur dedi | Pool Battom Type |
| Marsh Branch | | | | | · | · | | ſ |
| Representative Site | UP409301 | 48 | 96 | 24 | 1 | 6 | 18 | bedrock |
| Representative Site | UP412403 | 24 | 12 | 6 | 4 | 10 | 8 | Sand |
| Mill Branch | | | | | | | | |
| Representative Site | UP705302 | | 30 | | | 2 | | Silt |
| Representative Site | UP719304 | 24 | 40 | 36 | 3 | 12 | 12 | Silt |
| Representative Site | UP721205 | 36 | 48 | 196 | 1 | 2 | 18 | Sand |
| Representative Site | UP726402 | 4 | 6 | 2 | 8 | 7 | 2 | Silt |
| Representative Site | UP730309 | 120 | 120 | 48 | 2 | 12 | 24 | Sand |
| Representative Site | UP733301 | 24 | 36 | 48 | 2 | 6 | 12 | Gravel |
| Representative Site | UP734301 | | | 60 | | | 6 | Silt |
| Representative Site | UP737201 | | 96 | 96 | | 7 | 26 | Silt |
| Representative Site | UP738204 | 24 | 60 | 72 | 3 | 7 | 12 | Gravel |
| Mount Nebo Branch | | | | | | | | |
| Representative Site | UP901303 | | 72 | | | 10 | | Silt |
| Representative Site | UP905302 | 24 | 36 | | 1 | 2 | | Silt |
| Representative Site | UP906101 | | 4 | | | | | Sand |
| Representative Site | UP908101 | 84 | 120 | | 1.5 | 27 | | bedrock |
| Representative Site | UP910101 | 56 | 60 | 60 | 2 | 4 | 18 | Sand |
| Representative Site | UP911103 | | | | | | | Sand |
| Tributary 1 | | | | | | | | |
| Representative Site | UP104302 | | 36 | 48 | | 2 | 30 | Sand |
| Representative Site | UP109402 | 18 | 12 | 4 | 10 | 12 | 8 | Gravel |
| Representative Site | UP111401 | 10 | 8 | 4 | 16 | 10 | 8 | Sand |
| Tributary 2 | | | | | | | | |
| Representative Site | UP203204 | 6 | 72 | | 2 | 1 | | cobble |
| Tributary 3 | | | | | | | | |
| Representative Site | UP301201 | 3 | 24 | | 1 | 1 | | Silt |
| Representative Site | UP304201 | 12 | 36 | 48 | 1 | 2 | 4 | Gravel |
| Representative Site | UP307204 | | 48 | 36 | | 4 | 8 | Silt |
| Representative Site | UP309103 | 12 | 56 | 30 | 3 | 6 | 18 | Sand |
| Representative Site | UP310205 | 12 | 84 | 36 | 1 | 4 | 8 | Gravel |
| Representative Site | UP313101 | 24 | 36 | | 1 | 3 | | Sand |
| Representative Site | UP314201 | 12 | 24 | 48 | 1 | 2 | 12 | Gravel |
| Representative Site | UP315202 | 48 | 96 | 48 | 2 | 4 | 12 | Silt |
| Representative Site | UP317203 | 36 | 96 | 108 | 4 | 4 | 36 | Gravel |
| Representative Site | UP319201 | 48 | 48 | 36 | 2 | 2 | 8 | Silt |
| Representative Site | UP321201 | 30 | 120 | 84 | 4 | 8 | 24 | Silt |
| Representative Site | UP322205 | 12 | 108 | 36 | 3 | 7 | 36 | sand |

Representative Sites B

| 2righer. | site | Width Ri | Midth P | ur width? | od Degin P | The Depth R | ur Deding | od Rottom Type |
|---------------------|----------|----------|---------|-----------|------------|-------------|-----------|----------------|
| Tributary 4 | | | | | | | | |
| Representative Site | UP505404 | 12 | 48 | 6 | 6 | 4 | 10 | Silt |
| Representative Site | UP511401 | 52 | 24 | 8 | 6 | 8 | 4 | bedrock |

| Stream Segment | chal | ne Alegain | indion to | jon tab | Sed Like | Barriet | ediate Butte | Outtail | esentative c | n Dunging | Jud Condition |
|-------------------|------|------------|-----------|---------|----------|---------|--------------|---------|--------------|-----------|---------------|
| Green Branch | 4 | | 7 | 6 | 19 | 8 | 20 | 10 | 2 | 5 | 81 |
| Honey Branch | | | 4 | | 3 | 1 | | 2 | 1 | | 11 |
| Horsepen Branch | 11 | 1 | 25 | 10 | 54 | 24 | 57 | 21 | 10 | 13 | 226 |
| Marsh Branch | 2 | | 7 | | 7 | 2 | 13 | 2 | 1 | | 34 |
| Mill Branch | 7 | | 17 | 2 | 20 | 12 | 19 | 9 | 7 | 13 | 106 |
| Mount Nebo Branch | | 1 | 11 | | 8 | 11 | 5 | 6 | 3 | 2 | 47 |
| Tributary 1 | 2 | | 5 | 2 | 7 | 4 | 11 | 3 | 6 | 3 | 43 |
| Tributary 2 | 1 | | | 1 | 1 | 1 | 18 | 1 | | 2 | 25 |
| Tributary 3 | 1 | | 4 | 4 | 9 | 7 | 49 | 12 | 1 | | 87 |
| Tributary 4 | 3 | | 5 | 1 | 17 | 2 | 5 | 2 | | 3 | 38 |