| PFPR Screening for Stormwater Infiltration | | | | | Worksheet J-1 | |
| --- | --- | --- | --- | --- | --- | --- |
| Outfall Basin Name: |  | | | | | |
| Category | Parameter | Yes | No | Not Sure | Data Source / Reference1 | Comments / Justification |
| Geologic | Located in an area of Karst Topography |  |  |  | Figure 3-2 |  |
| Located in an area of Acid Producing Rock |  |  |  | Figure 3-3 |  |
| Located in Landslide Prone Areas |  |  |  | Figure 3-4 |  |
| Soils | Hydrologic Soil groups C or D |  |  |  | [NRCS Soil Survey](https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/soils/survey/?cid=nrcs142p2_053369) |  |
| Located in an area of potentially expansive soils |  |  |  | Figure 3-5 |  |
| Groundwater | Located in Identified Groundwater Recharge area |  |  |  | Figure 3-6 |  |
| Environmental | Areas of contaminated soil or groundwater |  |  |  |  |  |
| Near hazardous site? |  |  |  | [GA EPD Hazardous Site](https://epd.georgia.gov/about-us/land-protection-branch/hazardous-waste/hazardous-site-inventory) Inventory |  |
| Near brownfield sites or active remediation sites |  |  |  | [GA EPD Brown Fields](https://epd.georgia.gov/land-protection-branch/hazardous-waste/brownfield) |  |
| Near existing underground storage tank (UST) site |  |  |  | [GA EPD USTs](https://epd.georgia.gov/about-us/land-protection-branch/underground-storage-tanks) |  |
| Structural | Within 50 feet of structure foundation (e.g., bridge, retaining wall, building, etc.) |  |  |  |  |  |
| Within 20 feet of buried utilities |  |  |  |  |  |
| Topographic | Preconstruction slopes outside allowable limits in Chapter 10.6 of this manual |  |  |  |  |  |
| BMP footprint within 25 feet of the existing crest or toe of a slope steeper than 4H:1V |  |  |  |  |  |
| BMP footprint within a distance 1.5 times the height of the nearest fill slope steeper than 4:1. |  |  |  |  |  |
| Less than one-foot elevation difference between inflow and outflow locations |  |  |  |  |  |
| Constructed within on or near fill sections |  |  |  |  |  |

| Desktop Site Classification | Mark one (X) |
| --- | --- |
| Unsuitable |  |
| Potentially Suitable |  |

|  |  |  |
| --- | --- | --- |
| PFPR Infiltration Trench Suitability Field Report | | Worksheet J-2 |
| **Section** | **Content** | |
| **1** | **Introduction** | |
| 1. Project Description. Provide a description of the subject project, with reference to the potential need for infiltration trenches. Establish the design phase addressed by the report. 2. Objective of This Study. Provide a succinct statement of the objective of the work reported. 3. Abstract of Current Phase Assessment. Provide a summary of the PFPR Field Study findings and recommendations.  | Field Study Site Classification | Mark one (X) | | --- | --- | | Unsuitable |  | | Suitable |  | | | |
| **2** | **Site Description** | |
| 1. Regional Geology. Provide a description of geologic setting of the site, with focus on the influence of the near surface geology on the project requirements for infiltration. This review may rely on the findings of previous studies. Graphics should be used to support discussion. 2. Site Conditions.    1. Surface Conditions. Utilizing available survey and preliminary project documentation, provide description of the site. A description of the site surface topography should be provided in detail, providing maps to support this discussion. Utilize graphics/maps/ photos, as appropriate, to discuss other relevant descriptions of the site.    2. Subsurface. Provide a description of the near surface soil and rock units, taking care to distinguish between naturally occurring deposits and areas of artificial fill. If fill is planned for the site and may affect stormwater infiltration trenches, such fill should be noted. Support descriptions of the subsurface by the indications of soil borings, test pits, etc. If relevant, utilize the indications of laboratory testing to support soil descriptions.    3. Groundwater. Describe groundwater elevation across the site, addressing any apparent groundwater gradient. Address historical high groundwater levels.    4. Surface Water. Describe surface water to the degree it may affect the site or has historically affected the site. Documentation from flood mapping should be cited. | | |
| **3** | **Subsurface Exploration Or Laboratory Testing** | |
| 1. Subsurface Exploration. Provide a description of the scope of the field subsurface exploration. Summarize the types of testing conducted, with references to appendices that provide details (boring logs, logs of test pits, etc.). This discussion must be supported by at least one figure that shows the location of all field exploration points. Field exploration points must be described in terms of GPS locations and elevation. 2. Laboratory Testing (if applicable). Provide a description of the scope of laboratory testing. Summarize the types of testing conducted, including ASTM references. Tabulate the findings of laboratory testing in summary form in the body of the report. Details regarding laboratory testing should be appended. | | |

|  |  |
| --- | --- |
| Worksheet J-2 Page 2 of 2 | |
| **Section** | **Content** |
| **4** | **Infiltration / Percolation Testing** |
| 1. Summary of Testing. Provide a description of the scope of infiltration and/or percolation testing undertaken for this study.   Utilize tables and graphics to depict the locations of the various types of testing conducted. Discussion should also be provided regarding the reasons for selection of testing methodologies.  Discussion regarding the testing should reference appendices that provide details of all work, including test methodologies, etc. This discussion must be supported by at least one figure that shows the location of all field exploration points. Field exploration points must be described in terms of GPS locations and elevation.   1. Discussion of Results. Provide discussion regarding the indications of the testing. Utilize tables for presentation of specific recommended design parameters for specific stormwater infiltration trenches.   As appropriate, distinguish recommended design values for different subsurface soil units. | |

|  |  |
| --- | --- |
| 5 | Discussion and Recommendations |
| 1. Discussion. Utilizing the information developed from this assessment review in summary the data developed in Sections 1-4. 2. Recommendations. Provide recommendations from a geologic and geotechnical perspective for implementation of infiltration trenches as addressed by the subject report. These recommendations should address, at a minimum, the site consideration listed below.    1. Design Basis Infiltration Rates. Provide design basis infiltration rates for specific soil units for specific infiltration trenches. If the infiltration rate is less than 0.5in/hr, infiltration trenches are unsuitable. | |
| **6** | **References** |
| Provide a listing of references used in preparation of the report. | |
| **Appendices** | **Project Documentation** |
| Attach records of borings, test pits, laboratory testing (if applicable), field testing, etc. as separate appendices to Worksheet J-2. | |