

**CLEAN WATER REVOLVING LOAN FUND
PRELIMINARY ENGINEERING REPORT REVIEW CHECKLIST
For Conveyance Projects**

Locality:	Date:
Project Name:	Prepared By:
Loan #:	DEQ Reviewer

I. instructions

Indicate whether the following information is adequately addressed in the Preliminary Engineering Documents and where it is located (i.e. Section 2, page 10). This checklist may be completed electronically or by hand. Please submit all documents used to complete this checklist.

II. Current Collection System and Downstream Facilities

1. Description of the existing system: _____
2. Capacity of the existing system: _____
3. Discussion of deficiencies in the existing system: _____
4. Discussion of sewage overflows or bypasses: _____
5. Discussion of new connections or increases in capacity proposed: _____
6. Evaluation of downstream capacities to point of discharge: _____
7. Discussion of design flow determination to also address I&I, growth, and population trends: _____
8. Discussion of the Virginia SCAT regulations with respect to design flows, design basis, and design life:

III. Development and Evaluation of Alternatives

1. Description of each alternative provided including the rehabilitation of existing facilities?

List Alternatives:

List the recommended alternative:

2. Discussion of at least 3 of alternatives capable of meeting the project goal evaluated: _____

3. Costs of each alternative presented with a basis for comparison: _____

4. Discussion of O&M costs: _____

5. Alternative sites evaluated in terms of the advantages, disadvantages, and environmental impacts: _____

6. Summary of components for cost basis of each alternative: _____

7. Can alternative designed to deliver peak flows downstream to STP without overflows or bypasses: _____

8. Site layout schematics provided for each alternative: _____

9. Service area identified consistent with the design year: _____

10. If a pump station is proposed, is there a description of the proposed installation (including public safety considerations, instrumentation and instrumentation location, and reliability classification) (Recommend Class I reliability if overflows / bypasses will enter environmentally sensitive areas.)

IV. Selected Plan

1. Discussion of the basis for selected alternative: _____
2. Justification provided and tabulated (side by side) comparisons of the alternatives: _____
3. Implementation of the selected alternative including a schedule: _____
4. Conformance with the Virginia SCAT Regulations: _____
5. Discussion of financing plan and cost impacts on the system's users: _____

Comments:

V. DEQ Use

Does the selected plan appear to be the most cost effective and environmentally sound?

Summarize any deficiencies in the PER which should be addressed:

Date of comment letter:

Recommendation:

Reviewed by Project Manager:

Date:

Reviewed by Project Oversight Team Lead:

Date: