



PROPOSED STORMWATER MANAGEMENT PLAN
and WATER QUALITY IMPACT STUDY

CITY OF BATON ROUGE-PARISH OF EAST BATON ROUGE

Department of Public Works

Infrastructure Planning Division

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August 14, 2007



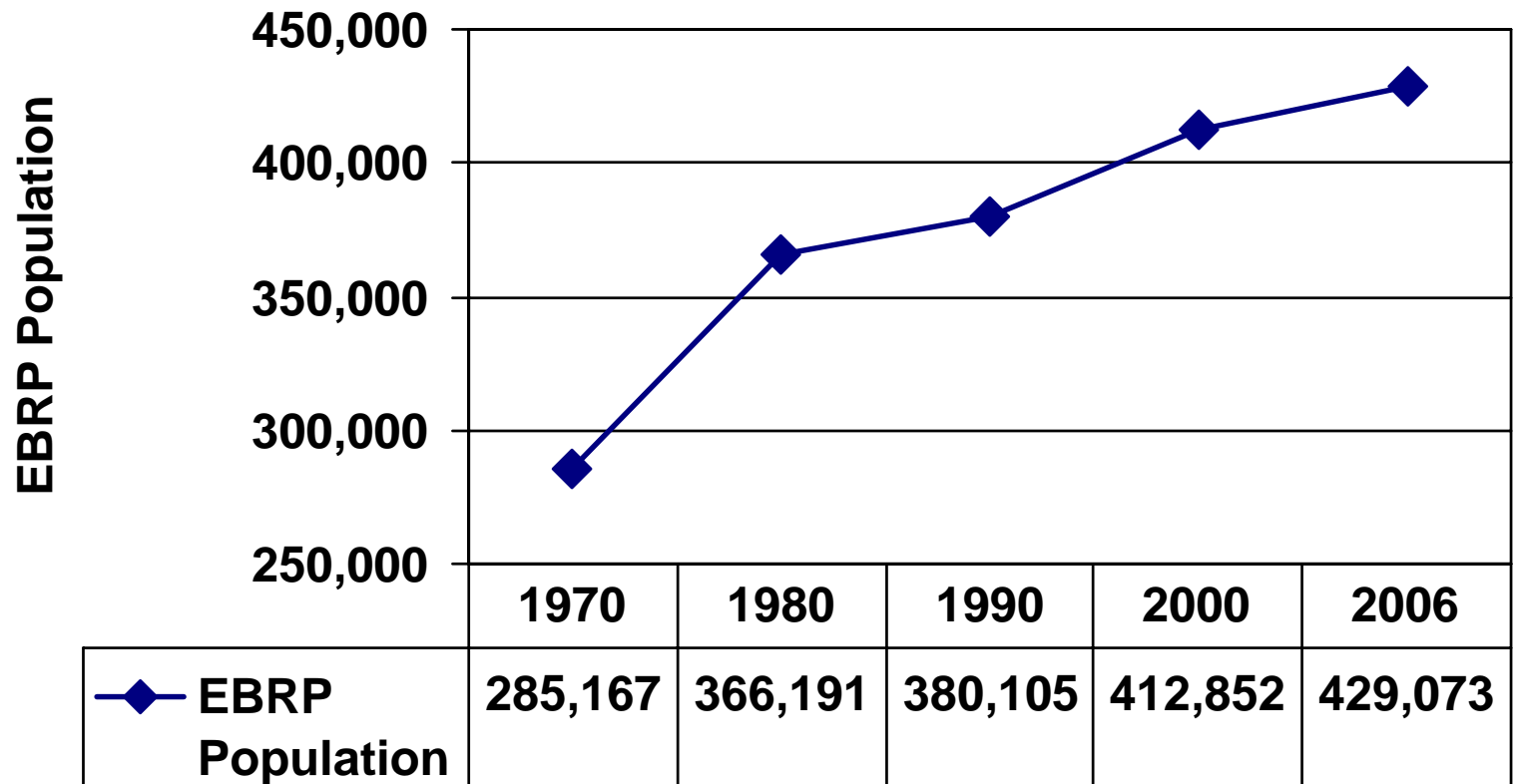
Today's Presentation

- Local Development Trends
- Stormwater – More than just quantity
- Current Requirements
- Proposed Requirements
 - Water Quality Impact Study
 - Stormwater Management Plan



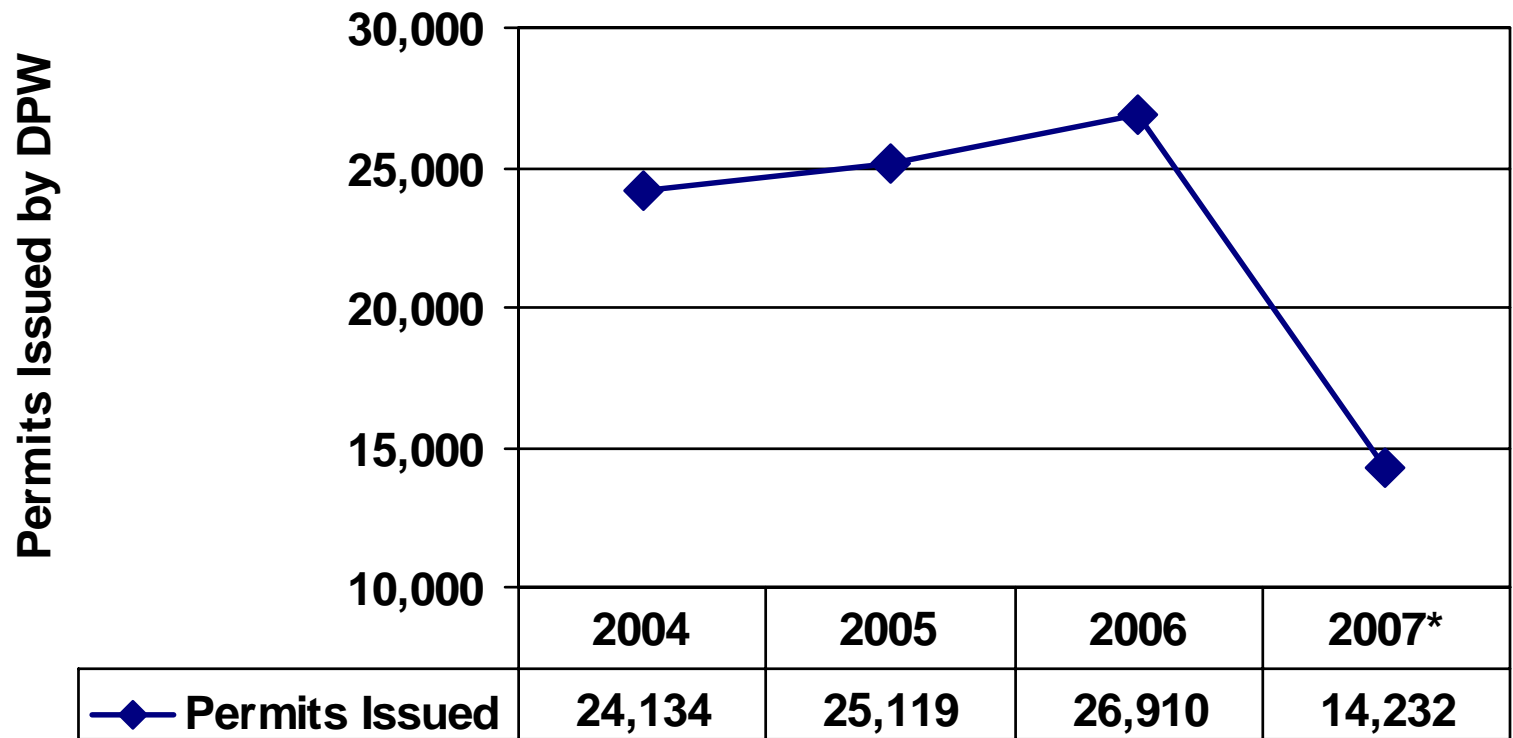


Local Development Trends





Local Development Trends



**Through June 2007*





Stormwater – More than just quantity

- Development impacts stormwater!

	Positive Impact	Negative Impact
Quantity	<ul style="list-style-type: none">■ Improved outfalls■ Improved collection systems■ Increased storage	<ul style="list-style-type: none">■ Increased runoff■ Loss of storage■ Increased flooding frequency
Quality	<ul style="list-style-type: none">■ Reduced pollutant load	<ul style="list-style-type: none">■ Increased pollutant load





Stormwater – More than just quantity

- Water quality impacts quality of life!



Proposed Stormwater Management Plan and Water Quality Impact Study



Current Requirements

- **Drainage Impact Study**
 - Adequate capacity for 10-year storm
 - Does not address water quality

**Drainage Impact Study
(DIS)**

Detailed study of the drainage issues associated with the development.





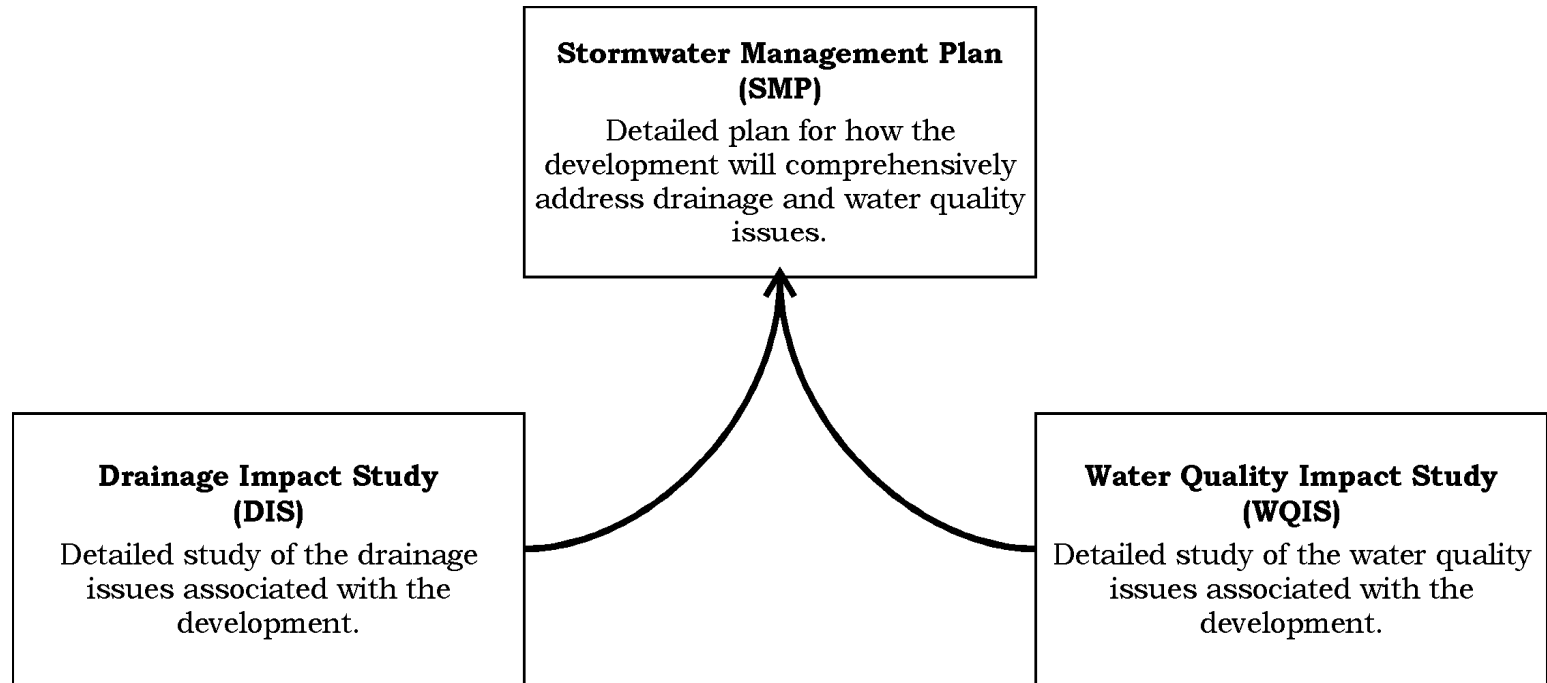
Developing New Requirements

- CPPC Master Development Program Subcommittee
 - Planning Commission staff
 - Department of Public Works staff
 - Drainage, Environmental, Operations
 - LDEQ
 - Private sector





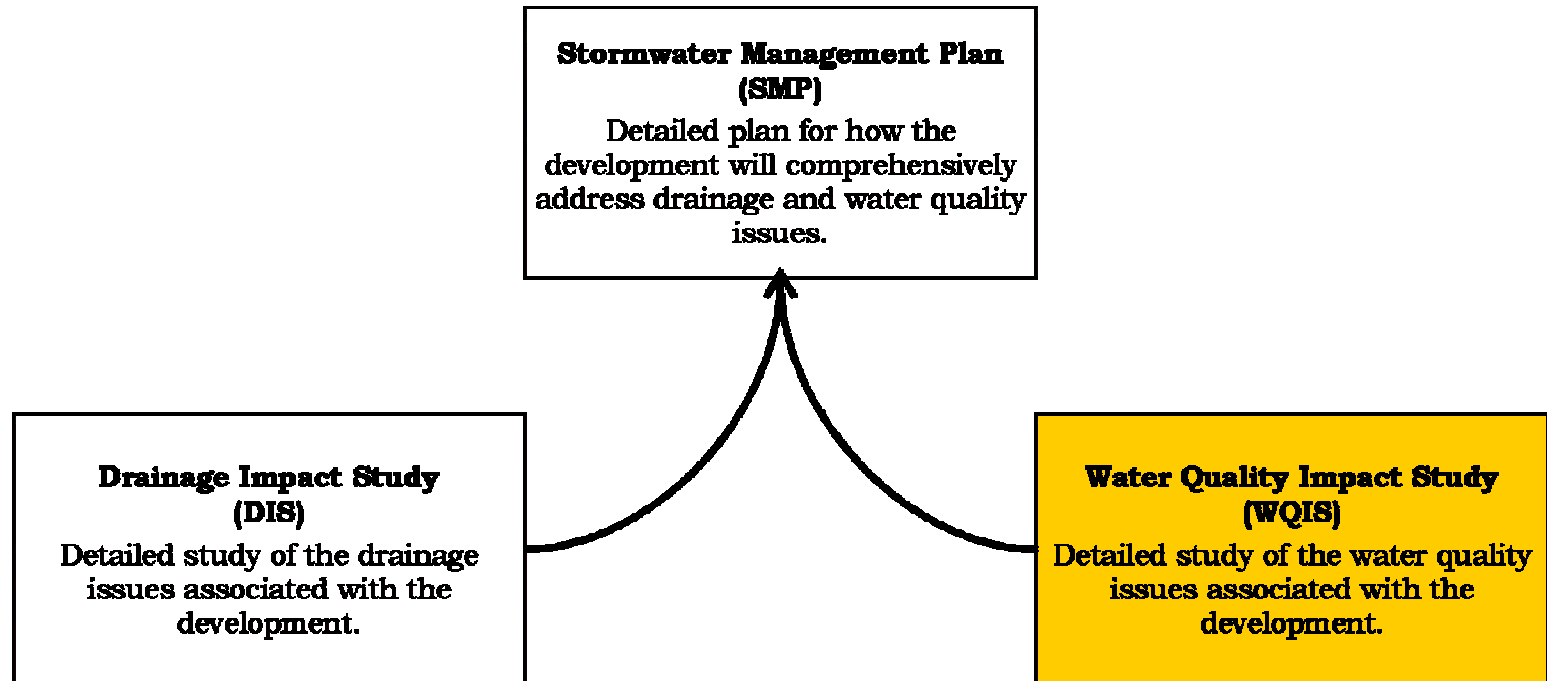
Proposed Requirements



Proposed Stormwater Management Plan and Water Quality Impact Study



Water Quality Impact Study



Proposed Stormwater Management Plan and Water Quality Impact Study



Water Quality Impact Study

- Similar to DIS, but for water quality
- Required for developments subject to Planning Commission approval
 - Exemptions
 - Sites with a developed area of less than one (1) acre
 - Farming or agricultural activities
 - Submit with site plan or preliminary plat





Water Quality Impact Study

- Components
 - Existing Site Conditions and Location
 - Proposed Development Conditions
 - Empirically expected pollutant load
 - Proposed Water Quality Treatment
 - Study Conclusions & Recommendations





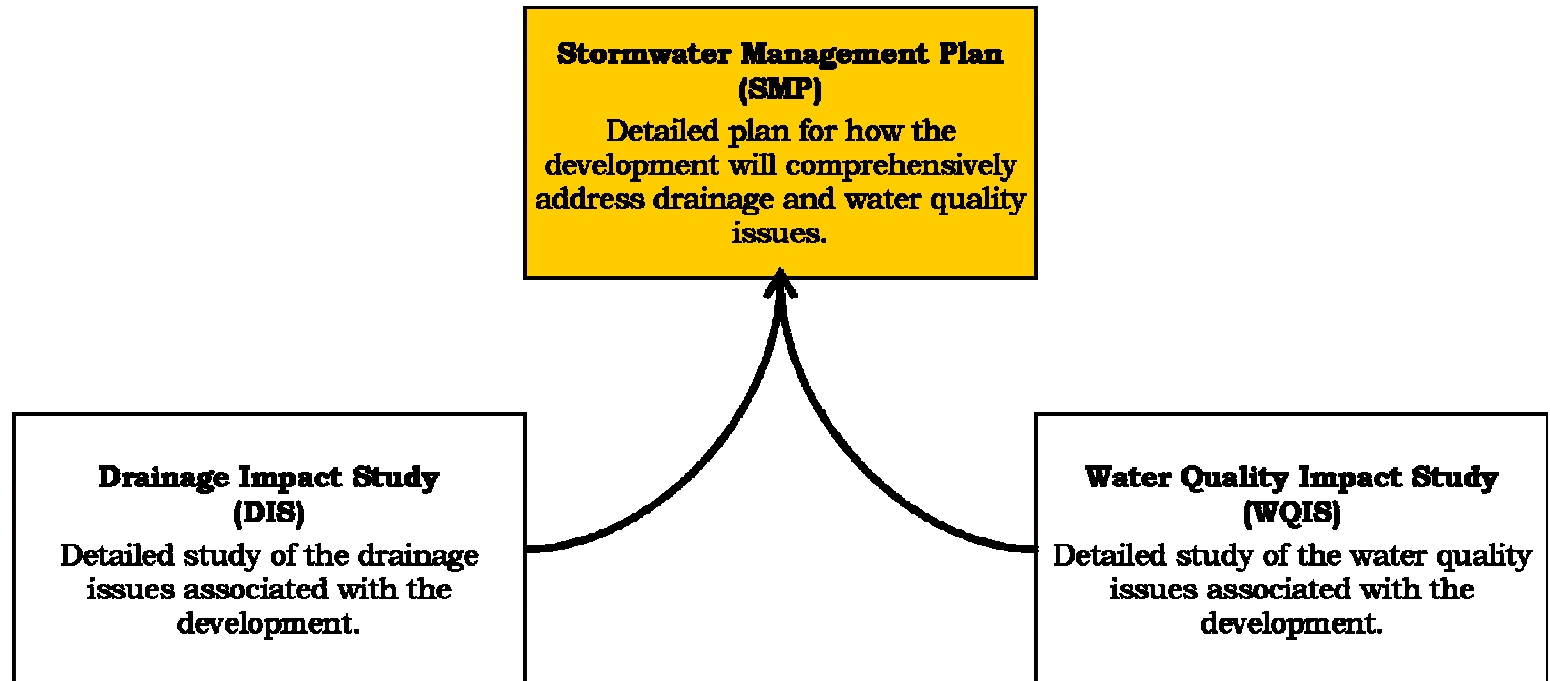
Water Quality Impact Study

	BMP 1	BMP 2	BMP 3	TOTAL
Pollutant 1	percent reduction			percent reduction
Pollutant 2				
Pollutant 3				
TOTAL	percent reduction			





Stormwater Management Plan



Proposed Stormwater Management Plan and Water Quality Impact Study



Stormwater Management Plan

In order to **comply with Federal and State regulations** for urban stormwater, a **Stormwater Management Plan (SMP)** will be **required for all development and redevelopment projects**. The purpose of the Stormwater Management Plan is to **describe how drainage and water quality will be managed for the project.**





Stormwater Management Plan

- Required for all developments requiring Planning Commission and/or DPW approval
 - Exemptions
 - Residential lots of less than one-half (0.5) acre within subdivisions approved on or before <approval date>
 - All lots in duly authorized subdivisions created with an SMP





Stormwater Management Plan

Development Type	When to Submit
Subject to Planning Commission approval	Prior to approval of construction plans
Others requiring DPW approval	Prior to issuance of building permit





Stormwater Management Plan

- Shall be consistent with DIS and WQIS, when either or both are required
- Requirements
 - Drainage capacity for 10-year storm
 - Pollutant reduction of 50% from predevelopment condition or as required by LDEQ





Stormwater Management Plan

- Components
 - Location
 - Existing Conditions
 - Proposed Development
 - Plan Implementation
 - Maintenance





Summary

- **Current Requirements**

**Drainage Impact Study
(DIS)**

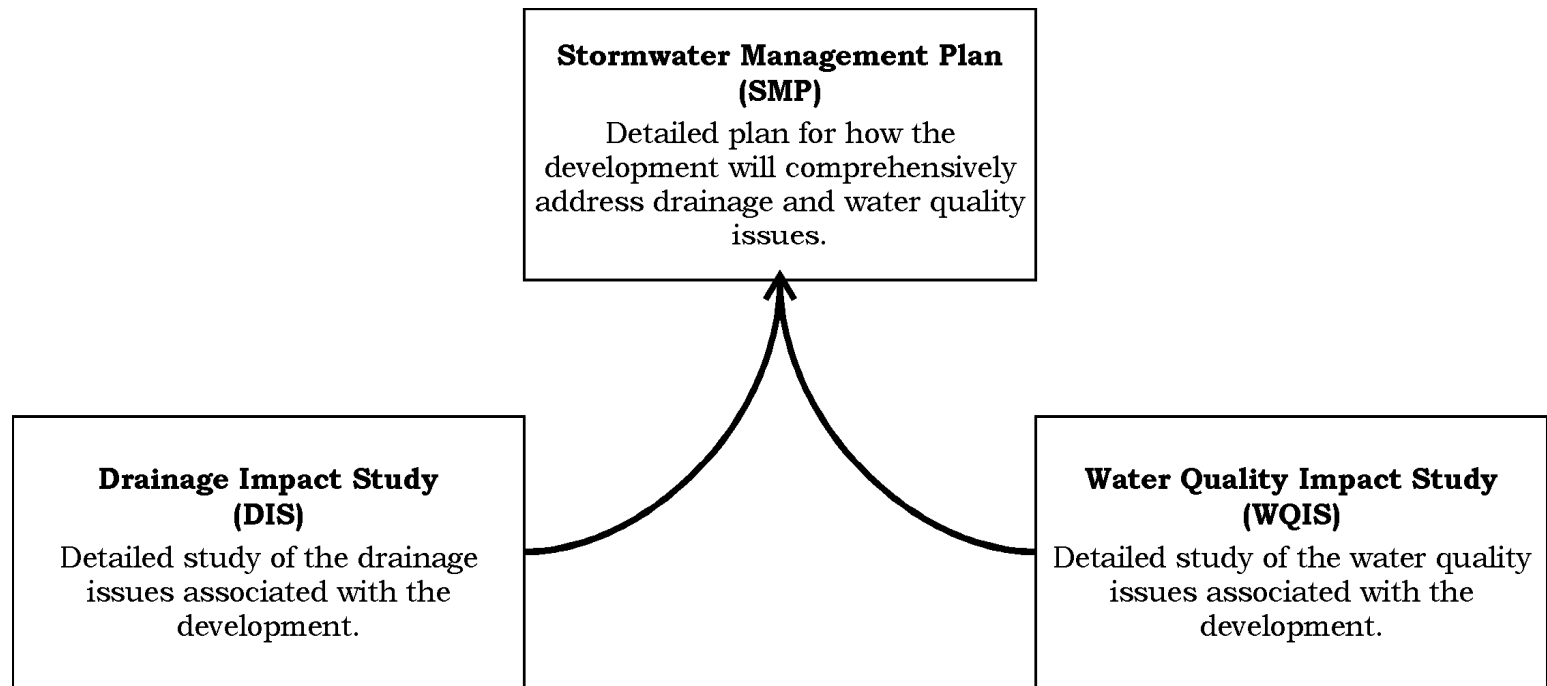
Detailed study of the drainage issues associated with the development.





Summary

■ Proposed Requirements



Proposed Stormwater Management Plan and Water Quality Impact Study





Questions or Comments?

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Proposed Stormwater Management Plan and Water Quality Impact Study