

Appendix E

INDIVIDUAL WATER QUALITY ASSESSMENT REPORT

Site Name/Facility: Reservoir Drive

Master Program Map No.: 64a

Date: January 21, 2015

Civil Engineer (name, company, phone number): N/A

Register Civil Engineer Number & Expiration Date (place stamp here): N/A

Instructions: This form must be completed for each facility prior to the completion of the Individual Maintenance Plan and prior to any work being conducted in the facility. Attach additional sheets if needed.

EXISTING CONDITIONS

The site of the emergency maintenance is characterized by a concrete-lined storm water channel that is 12 feet wide and 780 feet long. The channel is located on the east side of Reservoir Drive, south of Alvarado Road and north of Reservoir Lane.

The emergency maintenance was performed with a Gradall, backhoe and skid steer on November 28, 2014. The skid steer was lowered into the channel from Reservoir Drive and pushed vegetation and sediment in the channel to central locations in the channel. Operating from Reservoir Drive, the Gradall and backhoe removed the material from the channel and loaded into dump trucks. The excavated material was taken to an approved disposal site. Approximately 130 tons of material was removed from the channel. A vac truck was located at the downstream end of the channel to collect water and debris during maintenance to protect downstream areas.

Due to the emergency nature of the project, a water quality assessment pursuant to the Master Storm Water Maintenance Plan was not prepared in advance. There was no opportunity to conduct pre-maintenance water quality sampling to establish a baseline for assessing post-construction effects. However, a vac truck was stationed at the downstream end of the channel and vacuumed and water or debris so it would not leave the project site and minimize effects on downstream water quality.

Downstream impacts from increased sedimentation would not be expected to occur as a result of the maintenance. As a concrete-lined channel, the maintenance did not expose soil and increase the potential for erosion and sedimentation. In fact, the maintenance removed sediment which could have potentially been transported downstream by runoff. Increases in downstream water-borne pollutants would also not be expected. The relatively short length of channel and associated vegetation does not offer substantial capacity to remove pollutants from storm water runoff.

As a result of all of these factors, a water quality assessment was not able to be conducted.

Description of creek/channel geometry (length, width, and depth):

N/A

Description of Sediment Sampling Activities (location(s), depth, shipment/deliverer to laboratory(s)):

N/A

Note: Attach Chain of Custody Sheet(s), Table of Chemical Analysis Results, and Laboratory Sieve Analysis Results

Appendix E

Description of Flow Measurement Activities (location(s) and equipment): N/A Note: Attach Field Notes and Model Calculation Worksheets
Description of Volume Measurement Activities (interval, total number, equipment): N/A
Description of Water Quality Sampling Activities (location(s), shipment/delivery to laboratory(s)): N/A
Description of Wetland Assessment (Existing) Activities (personnel, general conditions): N/A
Description of Wetland Assessment (Recovery) Activities (personnel, general conditions): N/A
Sediment Pollutant Loading Estimates: N/A
MAINTENANCE IMPACTS
Evaluation of Benefits / Impacts: Are there constituents that have potential impacts greater than benefits? Yes <input type="checkbox"/> No <input type="checkbox"/> If so, identify constituents here and compare measured concentrations to thresholds. N/A
MITIGATION
If impacts are identified, list potential mitigation efforts (e.g., BMPs type(s) and number(s)) that may be implemented in the watershed: N/A
ADDITIONAL COMMENTS OR RECOMMENDATIONS

Appendix E

LIST OF ATTACHMENTS (Check All That Apply):

- ✓ Site Photos
- Chain of Custody Sheet(s) for Sediment Sampling
- Analytical Results of Sediment Sample(s)
- Chain of Custody Sheet(s) for Water Column Sampling
- Analytical Results of Water Column Sample(s)
- Flow Measurement Model
- Volume Measurement Model (Existing Condition)
- Wetland Land Assessment Scoring Sheet (Existing Condition)
- Wetland Land Recovery Assessment Scoring Sheet (Maintained Storm water facility)
- Sieve Analysis Laboratory Results
- Sediment Pollutant Loading Model (Load Removal in Sediment)
- Potential Water Quality Impacts Model and Comparison to Benefits
- Potential Mitigation Efforts Model