



## **Dyke Inspection Sheet**

Dyke: Coves Dyke and Floodgate Weather: Sunny, 25 °C Immediate Action Required •

Date: June 14, 2004

Inspected By: N.Oliveira, S.Jeater Further Investigative Work •

Report No.: 1 of 1

Section   Specify: to m   Comments: Minor erosion noted not expected to affect performance. Verification of floodgate structure operation not completed at this time.	General Information	
Verification of floodgate structure operation not completed at this time.	Section Inspected:	Overall Condition Rating: 4
Addiscent Property Use: Residential Parkland Oyke Facing  Dyke Face Material: Concrete Gabion  Barthfill Condition Rating: Condition Ratin	Complete ✓	Comments: Minor erosion noted not expected to affect performance.
Residential Parkand Power Face Metalia Power Power Face Metalia Power	·	
Dyke Facing   Structural Condition (Dyke Face):   Erosion	Adjacent Property Use:	Comments: Greenway Park borders the structure.
Dyke Face Meterial:	Residential • Parkland ✓	
Dyke Face Material:   Concrete   Gabion   Structural Condition (Dyke Face):   Erosion   Specify type:   Specify:   Spec	Commercial • Industrial •	
Concrete   Cabion	Dyke Facing	
Babion   Specify type:   Specify type:   Specify type:   Specify type:   Specify type:   Specify:   Condition Rating: 4   Comments: Predominantly heavy vegetation consisting of trees, bushes and wild grass. Some cobbles and concrete rubble also noted (photo 9) adjacent to floodgate and underneath corrugated storm pipe.   Specify: Earth, some cobbles near floodgate.   Specify: Condition Rating: 4   Specify: Sealant Present Yes No Comments: Not applicable to earthfill dykes)   Sealant Present Yes No Comments: Not applicable.   Sealant Present Yes No Comments: Not applicable.   Specify: Sealant Present Yes No Comments: Not applicable.   Specify:	Dyke Face Material:	Structural Condition (Dyke Face):
Larthfill	Concrete •	Erosion ✓ Damage (impact, cracks, etc) •
Earthfill	Gabion •	, , , , ,
Condition Rating: 4 Comments: Minor erosion noted along tree roots at waters edge.  Condition Rating: 4 Comments: Minor erosion noted along tree roots at waters edge.  Comments: Predominantly heavy vegetation consisting of trees, bushes and wild grass. Some cobbles and concrete rubble also noted (photo 9) adjacent to floodgate and underneath corrugated storm pipe.  Toe:  Toe:  Toe:  Toe:  Toe Protection Material (concrete, gabion, earth or other) Specify: Earth, some cobbles near floodgate. Erosion Yes Y No Condition Rating: 4 Comments: Minor erosion noted near floodgate.  Erosion Yes Y No Comments: Minor erosion noted near floodgate.  Erosion Yes Y No Comments: Minor erosion noted near floodgate.  Erosion Yes Y No Comments: Minor erosion noted near floodgate.  Erosion Yes Y No Comments: Wegetation (in joints) Yes No Comments: Not applicable.   Vegetation:  None • Full Y Partial • If yes, condition rating: Vegetation (in joints) Yes No Comments: Not applicable.  Vegetation:  None • Full Y Partial • If yes, due for: Joints • Cracks Comments: Vegetation well established along side slopes of dyke. Some large trees/branches have broken and entered channel (~St. 0~080, see photos 27 to 29). Minor uprooling near edge of water. Signs of recent flooding near toe of dyke (photo 38) evident on nearby vegetation.  Additional Information:  Additional Information:  Additional Information:  Access Available Yes No Estimated Water Depth: Variable ~ 10 to 15cm Comments: Access via steep dirt pathways only along the west side (up to St. 0+090). Limited access along the east branch due to steep slopes.  Top of Dyke  Dyke Top Material:  Concrete • Asphalt • Erosion (behind wall, etc.) • Damage (vandalism, etc) • Movement (including uneverness, heaving or settlement)  Comments: No noticeable signs of erosion.  Protective Barrier:  Force • Guard Rail • None ✓ Other • Specify: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination		
Comments: Predominantly heavy vegetation consisting of trees, bushes and wild grass. Some cobbles and concrete rubble also noted (photo 9) adjacent to floodgate and underneath corrugated storm pipe.  Toe: Toe Protection Material (concrete, gabion, earth or other) Specify: Earth, some cobbles near floodgate. Erosion Yes No No Condition Rating: 4 Comments: Minor erosion noted near floodgate (St. 0+090). In general, no signs of significant erosion further downstream.  Vegetation: None Full Partial Type: Primarily trees with shrubs, bushes, wild grass, etc. Comments: Vegetation well established along side slopes of dyke. Some large trees/branches have broken and entered channel (~St. 0+080, see photos 27 to 29). Minor uproting near edge of water. Signs of recent flooding near toe of dyke (photo 38) evident on nearby vegetation.  Additional Information:  Access Vailable Yes No Estimated Water Depth: Variable ~ 10 to 15cm Comments: Access via steep dirt pathways only along the west side (up to St. 0+090). Limited access along the east branch due to steep slopes.  Top of Dyke  Dyke Top Material: Concrete Asphalt Specify: Condition Rating: 4 Comments: Well vegetated (trees and bush).  Pedestrian Access: Sidewalk Pathway None Yorker of the flooding rear in the protective barrier. Fence Guard Rail None Yorker other specify: Fence Guard Rail None Yorker other specify: Comments: Top of dyke the characterized primarily by combination.	Earthfill ✓	
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Top of Dyke    Dyke Top Material:		,
Dyke Top Material:         Concrete       • Asphalt       • Erosion (behind wall, etc.)       • Damage (vandalism, etc)       • Movement (including       • Specify type:         Earth       ✓ Rip Rap       • Movement (including       • Specify type:         Other       • Specify:         Condition Rating:       4         Comments:       Well vegetated (trees and bush).         Pedestrian Access:       Sidewalk       • Pathway       • None       ✓         Other       • Specify:       Fence       Guard Rail       • None       ✓         Other       • Specify:       Condition Rating (if present):       Condition Rating (if present):       Comments:         Comments:       Top of dyke characterized primarily by combination       Comments:       Comments:		
Concrete • Asphalt • Erosion (behind wall, etc.) • Damage (vandalism, etc) • Movement (including unevenness, heaving or settlement)  Other • Specify: Condition Rating: 4 Comments: Well vegetated (trees and bush).  Pedestrian Access: Sidewalk • Pathway • None ✓ Other • Specify: If present, width of access way: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination  Erosion (behind wall, etc.) • Damage (vandalism, etc) • Movement (including unevenness, heaving or settlement)  Condition Rating: 4 Condition Rating: 4 Comments: No noticeable signs of erosion.  Protective Barrier: Fence • Guard Rail • None ✓ Other • Specify: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination	Top of Dyke	
Earth ✓ Rip Rap •  Other • Specify:  Condition Rating: 4  Comments: Well vegetated (trees and bush).  Pedestrian Access: Sidewalk • Pathway • None ✓ Other • Specify: If present, width of access way: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination  Movement (including • Specify type:  unevenness, heaving or settlement)  Condition Rating: 4  Condition Rating: 4  Comments: No noticeable signs of erosion.  Protective Barrier: Fence • Guard Rail • None ✓ Other • Specify: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination	<u>Dyke Top Material</u> :	Structural Condition (Top of Dyke):
Other • Specify:  Condition Rating: 4 Comments: Well vegetated (trees and bush).  Pedestrian Access: Sidewalk • Pathway • None ✓ Other • Specify: If present, width of access way: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination  unevenness, heaving or settlement)  Condition Rating: 4 Comments: No noticeable signs of erosion.  Protective Barrier: Fence • Guard Rail • None ✓ Other • Specify: Condition Rating (if present): Comments: Comments: Top of dyke characterized primarily by combination		
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Pedestrian Access: Sidewalk • Pathway • None ✓ Other • Specify: If present, width of access way: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination  Protective Barrier: Fence • Guard Rail • None ✓ Other • Specify: Condition Rating (if present): Comments:		
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Other • Specify: Other • Specify: If present, width of access way: Condition Rating (if present): Comments: Top of dyke characterized primarily by combination		
Condition Rating (if present): Comments: Comments:	Other • Specify:	Other • Specify:
Comments: Top of dyke characterized primarily by combination		
		Comments:
or grass and dense vegetation.	of grass and dense vegetation.	

Top of Dyke - Continued	
Joints: (not applicable to earthfill dykes) Sealant Present Yes • No • If yes, condition rating: Vegetation (in joints) Yes • No • Comments: Not applicable.	Drainage Conditions: (ponding or low areas present) Good ✓ Poor • Comments: Drainage generally south to north, down the slope.
Illumination: (check for lighting present along the top of the dyke)  Yes • No ✓  Condition Rating:  Comments:	Vegetation:  None • Full ✓ Partial •  Type: Trees and shrubs/bush adjacent to grass.  Comments: Vegetation generally well maintained along the west branch. Wild grass and vegetation typical along the top of the east branch.
Additional Information:  Comments: Top of dyke visually separated from area directly behind via dense vegetation.	
Area behind the Dyke (immediately adjacent)	
Predominant Material:  Concrete • Asphalt ✓ Earth • Grass ✓ Other ✓ Specify: Granular  Condition Rating: 4  Comments: Predominantly manicured grass along the west branch with an asphalt pathway immediately adjacent (photo 56).  East branch consists of wild grass with a gravel pathway immediately adjacent.	Drainage Conditions: (ponding or low areas present) Good ✓ Poor Comments: Drainage generally south to north and down slope.  Are catchbasins present? Yes • No ✓ If yes, condition rating: Comments:
Vegetation: None • Full ✓ Partial • Type: Comments: See above.	Accessibility: (check for access areas behind the dyke only)  Sidewalks • Pathways ✓ Roads • None •  Condition Rating (if present): 4  Comments: Asphalt pathway immediately adjacent to grass along the west branch (St. 0+000 to ~0+120). Note minor asphalt settlement near 0+120 (photo 60). From St. 0+120 onwards (i.e. east branch), gravel pathway is present adjacent to wild grass (photo 57).
Protective Barrier: Fence • Guard • None ✓ Rail Other • Specify: If fence, list type and ownership (i.e. private or city):  Condition Rating (if present): Comments:	Illumination: (check for lighting present behind the dyke) Yes • No ✓  Condition Rating: Comments:
Storm Sewers/Outlet Structures	
Yes   No   (if no, proceed to next section)  If yes, type of structure (i.e. outlet, headwall, drainage pipe, channel or flush): Specify: Concrete headwall with floodgate (photo 8) at ~St. 0+095, storm outlet pipe along dyke face at ~St. 0+090 (photo 1), corrugated drainage pipe outlet at ~St. 0+120 (photo 60).	Outlet: (check for presence of gates or grates at the outlet) Flap Gate Yes • No • Safety Grate Yes ✓ No •
Condition Rating: 4 Comments: Verification of floodgate operation not included in this assessment.	Condition Rating: 4 Comments: Safety grate relates to floodgate structure.
Outlet Flow: (check for condition of channel downstream from pipe, obstructions within pipe, etc.)  Obstructions  Yes  No  Comments: Minor erosion noted near floodgate and below discharge of PVC storm outlet.	General Comments: Lack of sufficient protection at outlet to PVC storm pipe may result in erosion along dyke face (~St. 0+090).

RATING SYSTEM
Structure (or element) in very poor or unsafe condition which may pose public safety hazard. Unsafe Condition Structure (or element) in poor condition with significant deterioration noted. Deteriorations noted may impact on integrity and may require significant capital cost to bring to fair to poor condition rating. No safety hazard noted. 2 Poor Condition 3 Fair/Poor Condition Structure (or element) condition varies from fair to poor with some signs of significant deterioration in localized areas. Able to perform function, but at reduced capacity. Structure (or element) in fair condition with no visible signs of significant deterioration. Able to perform intended function with no Fair Condition apparent hindrance. 5 **Good Condition** Structure (or element) in good condition with minor deterioration. Able to perform intended function with no apparent hindrance.

