

**West Bay Golf Club Improvements
Stormwater Pollution Prevention Plan**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator and/or Responsible Authority

Date

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| Project Name and location information: West Bay Golf Club Improvements 4606 WEST BAY BLVD ESTERO FL 33928 | Strap Nos.: 32-46-25-E4-07GC1.0000 (WBGC) 32-46-25-E4-07GC1.0020 (WBGC) 32-46-25-E4-07GC1.0010 (WBGC) 05-47-25-E1-10GC9.0000 (WBGC) 32-46-25-E4-07MF2.00CE (Jasmine Bay) 31-46-25-E2-07LK2.02CE (Lake 2-2) 05-47-25-E1-07LK6.02CE (Lake 6-2) 32-46-25-E1-07K10.02CE (Lake 10-2) |
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Site Description

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| Describe the nature of the construction activity: | Proposed improvements of the existing golf course include: re-grassing the entire course; replacing the greens, bunkers, and tee boxes; lake modifications; and reshaping fairways. |
| Describe the intended sequence of major soil disturbing activities: | <ul style="list-style-type: none"> - Install temporary erosion control measures. - Prep and regrade areas for relocated greens, bunkers, and tee boxes. - Complete landscape grading and install permanent seeding and plantings. - When all construction activity is complete and the site is stabilized, remove temporary sediment/erosion controls and re-seed any areas disturbed by their removal. All to be completed by contractor(s) |
| Total area of the site: | 168.43 Acres |
| Total area of the site to be disturbed: | 168.43 Acres |
| Existing data describing the soil or quality of any stormwater discharge from the site: | Daytona fine sand; Immokalee fine sand; Satellite fine sand; Wabasso fine sand; Smyrna fine sand; Copeland fine sand; Floridana fine sand; Orsino fine sand -This project utilizes a system of detention areas to provide the required water quality treatment and attenuation. -Discharge from the water management system is regulated by lakes which are controlled by water control structures. |

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| <p>Estimate the drainage area size for each discharge point:</p> | <p>The project consists of several sub-basins within the master stormwater management system.</p> <p>Basin 2: 46.11 ac Basin 3: 15.12 ac Basin 4: 59.55 ac Basin 5: 68.44 ac Basin 6: 72.56 ac Basin 6a: 9.56 ac Basin 7: 16.00 ac Basin 9: 24.40 ac Basin 10: 29.19 ac Hole 16: 1.20 ac</p> |
| <p>Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:</p> | <p><u>Basin 2</u>: 26.430246, -81.840841; Saltwater wetland adjacent to Estero Bay. <u>Basin 3</u>: 26.426498, -81.840260; Saltwater wetland adjacent to Estero Bay. <u>Basin 4</u>: 26.423657, -81.837957; Saltwater wetland adjacent to Estero Bay. <u>Basin 5</u>: 26.420000, -81.834911; Saltwater wetland adjacent to Estero Bay. <u>Basin 6</u>: 26.417422, -81.836077; Saltwater wetland adjacent to Estero Bay. <u>Basin 6a</u>: 26.416616, -81.835630; Saltwater wetland adjacent to Estero Bay. <u>Basin 7</u>: 26.414752, -81.829715; Halfway Creek <u>Basin 9</u>: 26.424351, -81.830560; Halfway Creek <u>Basin 10</u>: 26.428688, -81.832222; Halfway Creek <u>Hole 16</u>: 26.427093, -81.841040; Saltwater wetland adjacent to Estero Bay.</p> |

Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the Florida Development Manual: A Guide to Sound Land and Water Management (DEP, 1988) and any subsequent amendments.

- Prior to commencement of construction the Contractor shall prepare and maintain records of a detailed construction schedule to indicate dates of major grading activities and determine sequencing of temporary and permanent soil disturbing activities on all portions of the site.
- Prior to the beginning of any construction the Contractor shall install erosion and sediment control items as specified on the approved Erosion Control Plan.
- During all construction activities, silt fences shall be installed to prevent contaminated runoff from entering public right of way and adjacent properties.
- A rock entrance road (with a 6-inch depth of FDOT #1 stone and lined with filter fabric) shall be constructed to minimize the effects of truck traffic and sedimentation tracking both on and off the site.
- After the initial site grading work, all proposed inlet(s)/outfalls, shall be protected from erosion and sediment runoff using filter fabric and geohay inlet filters.
- Pipe outfalls into surrounding water management lakes shall be protected with floating turbidity barriers to ensure lake turbidity levels are maintained at an acceptable level. A turbidity monitoring program shall be implemented per the SFWMD dewatering permit.
- All erosion and sediment controls shall be maintained in accordance with this storm water pollution prevention plan and may be removed when permanent stabilization is established.

Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.

- Disturb only those areas required for the proposed construction activities.
- Disturbed areas shall be stabilized immediately after final grade has been attained.
- Permanent structures, temporary or permanent vegetation, and mulch, or a combination of these measures, shall be employed as quickly as possible after land is disturbed.
- Temporary vegetation and mulches can be utilized where it is not practical to establish permanent vegetation.
- Such temporary measures shall be employed immediately after rough grading is completed if a delay is anticipated in obtaining finished grade.
- Permanent erosion control measures – such as seed, mulch, geotextiles or chemical stabilization – shall be in place within seven (7) days for any areas where construction has been completed. Seed should only be used during periods where adequate rainfall is anticipated. Otherwise, seed should be used with another stabilization practice or another stabilization method should be used.
- Buffer zones will be placed adjacent to construction site (behind structural control) to improve water quality, where practical.
- Permanent seeding and planting should be performed in all disturbed areas after construction is complete.

Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.

- Silt fence / synthetic hay bale barriers will be constructed along those areas of the project identified on the erosion control plan.

Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.

- The site will utilize the proposed lakes as sediment basins before the final bathymetric survey and certification. There will be no wetland impacts during the construction of this project.

Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.

- The project will utilize an existing water management system to provide the required water quality treatment and attenuation. Discharges from the water management system will be regulated by water control structures.

Describe in detail controls for the following potential pollutants

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| <p>Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:</p> | <ul style="list-style-type: none"> - All construction debris will be placed into a dumpster and hauled away. No debris will be buried on site. - Any chemicals used will be stored in a weatherproof container under lock & key. Material Safety Data Sheets (MSDS) will be kept on site for proper disposal/neutralization in the event of a spill. In the event of a “Reportable Spill” the proper contacts will be notified as per the MSDS. - A dumpster will be on site and utilized for litter. A daily inspection of the site for litter will be performed to prevent litter from accumulating and/or blowing off site as litter is a source of pollutant in itself. - A state licensed certified sanitary waste hauler will be utilized for port-o-johns used on the construction site. The waste containers will be pumped out weekly or on an as needed basis. |
| <p>Offsite vehicle tracking from construction entrances/exits:</p> | <ul style="list-style-type: none"> - No soils are anticipated to leave the site. However, to prevent soils from leaving the site rock stabilization will be provided at the golf course access locations to minimize the effects of truck traffic and sedimentation tracking both on and off the site. |
| <p>The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:</p> | <ul style="list-style-type: none"> - The contractor shall administer proper application rates of all fertilizers, herbicides & pesticides used at the construction site. - Any fertilizers, herbicides & pesticides used shall be according to the manufacturer’s recommendations as described on the label. All substances shall be kept in its original labeled container. |
| <p>The storage, application, generation and migration of all toxic substances:</p> | <ul style="list-style-type: none"> - No toxic substances are anticipated to be used at the site. However, any substance that is toxic shall be kept in a covered container under lock & key. The site supervisor will be responsible for the substances storage, usage and proper disposal methods of any leftover product and/or the empty container. - Any substance used shall be according to the manufacture’s recommendations as described on the label. All substances shall be kept in its original container. If any substance(s) must be transferred to a new container (due to leakage/breakage, etc.) the new container will be sealed and labeled accordingly. |
| <p>Other: Vehicle Maintenance</p> | <ul style="list-style-type: none"> - Any maintenance done on heavy equipment shall be required to use a non-impervious material placed under the area to be worked on. The purpose of this is to catch any petroleum products from coming into contact with the ground soils and/or washing away into surface water or MS4 during a rain event. All oils/greases shall be disposed of properly so as not to contaminate any areas on the construction site. |

Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.

- Regular inspections will occur weekly and within 24 hours of the end of a storm event that is 0.50" or greater.
- In the event that a BMP needs to be repaired or replaced, the maintenance will be performed within 24 hours. In no case shall the repair take more than 7 days.

Inspections: Describe the inspection and inspection documentation procedures, as required by Part V.D.4. of the permit. Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater (see attached form).

- Inspections will occur at least once per week and within 24 hours of the end of a storm event that is 0.50" or greater.
- A qualified inspector shall be retained during construction activities to inspect all points of possible discharge, storage of materials to rain, pollution control installations and stabilized construction entrances/exits.
- Detailed reports of inspections will be produced and filed at the construction site field office.

Identify and describe all sources of non-stormwater discharges as allowed in Part IV.A.3. of the permit. Flows from fire fighting activities do not have to be listed or described.

- Wash waters from vehicle washing. (No detergent or degreaser use is permitted.)
- Discharge from dewatering operations. Dewatering effluent shall be routed to the proposed stormwater management lakes for the proposed site. The control structure shall be blocked during construction and opened once dewatering operations have ceased and lakes have been certified. Silt fence and/or floating turbidity curtains shall be installed at the point of discharge into these detention areas. The control structure shall be temporarily blocked to retain dewatering effluent in detention areas to keep turbid waters from leaving the development.

This SWPPP must clearly identify, for each measure identified within the SWPPP, the contractor(s) or subcontractor(s) that will implement each measure. All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:

“I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder.”

| Name | Title | Company Name, Address and Phone Number | Date |
|-------------|--------------|---|-------------|
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Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: West Bay Golf Club Improvements

FDEP NPDES Stormwater Identification Number: _____

| Location | Rain data | Type of control (see below) | Date installed / modified | Current Condition (see below) | Corrective Action / Other Remarks |
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Condition Code:

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement
 C = Needs to be cleaned O = Other

Control Type Codes

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|-------------------------|---|--------------------------------------|-----------------------------------|
| 1. Silt Fence | 10. Storm drain inlet protection | 19. Reinforced soil retaining system | 28. Tree protection |
| 2. Earth dikes | 11. Vegetative buffer strip | 20. Gabion | 29. Detention pond |
| 3. Structural diversion | 12. Vegetative preservation area | 21. Sediment Basin | 30. Retention pond |
| 4. Swale | 13. Retention Pond | 22. Temporary seed / sod | 31. Waste disposal / housekeeping |
| 5. Sediment Trap | 14. Construction entrance stabilization | 23. Permanent seed / sod | 32. Dam |
| 6. Check dam | 15. Perimeter ditch | 24. Mulch | 33. Sand Bag |
| 7. Subsurface drain | 16. Curb and gutter | 25. Hay Bales | 34. Other |
| 8. Pipe slope drain | 17. Paved road surface | 26. Geotextile | |
| 9. Level spreaders | 18. Rock outlet protection | 27. Rip-rap | |

Inspector Information:

Name

Qualification

Date

The above signature also shall certify that this facility is in compliant with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority)

Date