

**FACT SHEET
FOR
STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0141356

PA FILE NUMBER: FL0141356-011-DW1P

FACILITY NAME: Collier County South Regional WWTP

FACILITY LOCATION: Naples
Collier County

NAME OF PERMITTEE: Collier County Water - Sewer District

PERMIT WRITER: Brandon Ivey

1. SYNOPSIS OF APPLICATION

a. Chronology of Application

Application Date: October 16, 2006

Additional Information: RFI #1 – November 13, 2006
RFI #2 – May 16, 2007
RFI #3 – May 25, 2007

Public Notice Date: Notice of Draft Permit – August 6, 2007
Notice of Intent to Issue – TBA

b. Type of Facility

Domestic Wastewater Treatment Plant
Publicly – Owned Treatment Works
Standard Industrial Classification Code: 4952

c. Facility Capacity

Existing Design Capacity:	16.0	MGD	MADF
Proposed Increase in Design Capacity:	0.0	MGD	MADF
Proposed Total Design Capacity:	16.0	MGD	MADF
Existing Permitted Capacity:	16.0	MGD	MADF
Proposed Increase in Permitted Capacity:	0.0	MGD	MADF
Proposed Total Permitted Capacity:	16.0	MGD	MADF

d. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

See attached maps for the locations of effluent disposal and land application sites.

Outfall Serial Number D-001 and D-002

This outfall is from two stormwater management ponds.

Reclaimed water is stored in the subject ponds.

2. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING EFFLUENT MONITORING REQUIREMENTS)

The following table provides the basis for Part I. A. provisions.

Outfall D-001 and D-002 (Class III fresh water):

Parameter	Limit	Basis	Rationale
Duration of Discharge (HOURS/DAY)	Report	Single Sample Max.	62-610, FAC and BPJ
Water Level Relative to NGVD (FEET)	Report	Single Sample Max.	62-610, FAC and BPJ
Overflow Use, Occurrences (OCC/MONTH)	Report	Single Sample Max.	62-610, FAC and BPJ
Duration of Discharge (HOURS/DAY)	Report	Single Sample Max.	62-610, FAC and BPJ
Water Level Relative to NGVD (FEET)	Report	Single Sample Max.	62-610, FAC and BPJ
Overflow Use, Occurrences (OCC/MONTH)	Report	Single Sample Max.	62-610, FAC and BPJ

Surface Water Discharge:

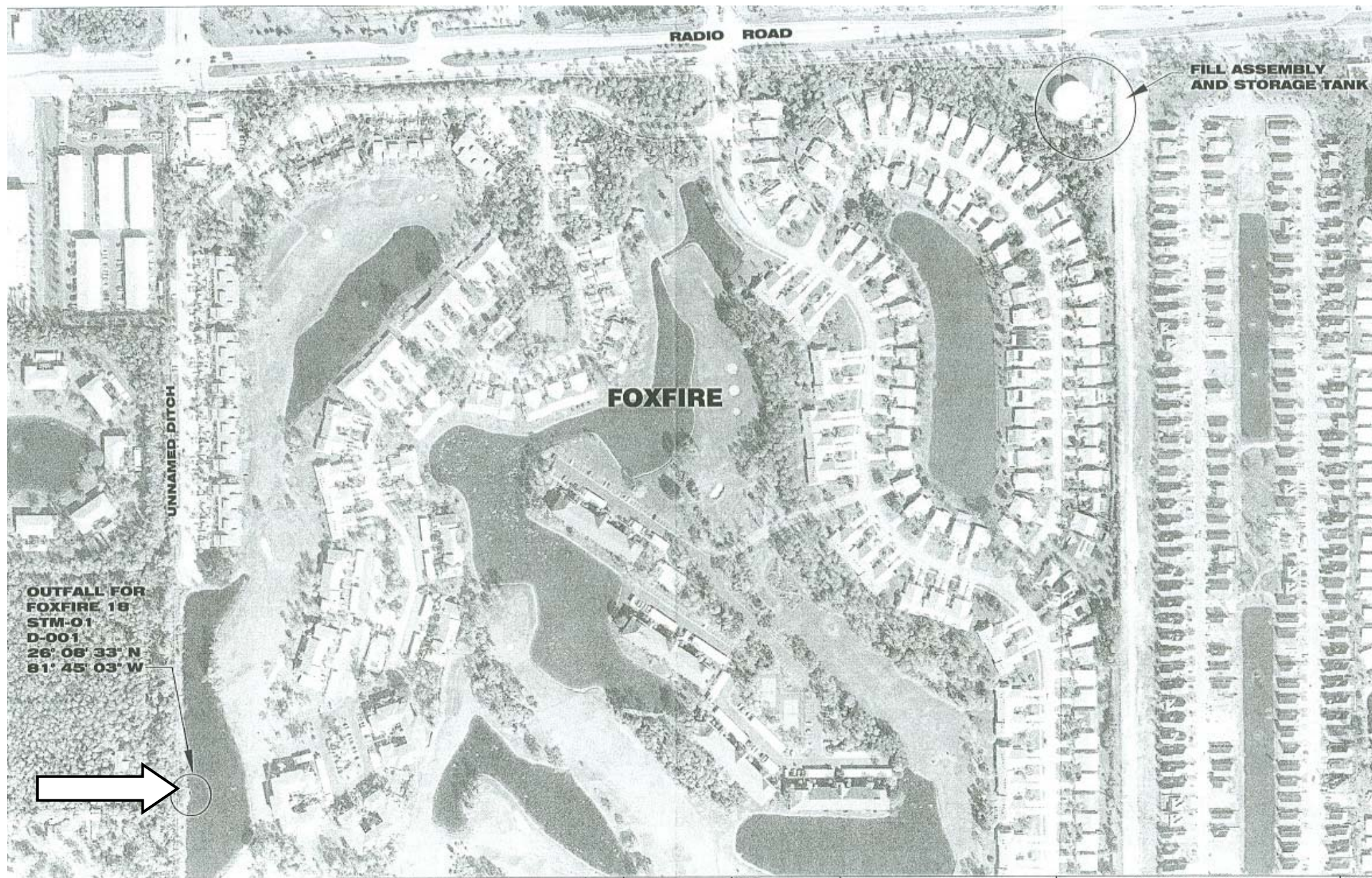
Reclaimed water will be stored in stormwater management ponds in the north basin of the existing 18-hole golf course and in the existing southwest basin of the 9-hole golf course. The stormwater outfall (Outfall D-001) for the north basin of the existing 18-hole golf course is located approximately at latitude 26° 08' 33" N, 81° 45' 03" and the stormwater outfall (Outfall D-002) for the south basin of the existing 9-hole golf course is located approximately at latitude 26° 08' 33" N, 81° 45' 06".

North Basin at the Foxfire 18-hole golf course.

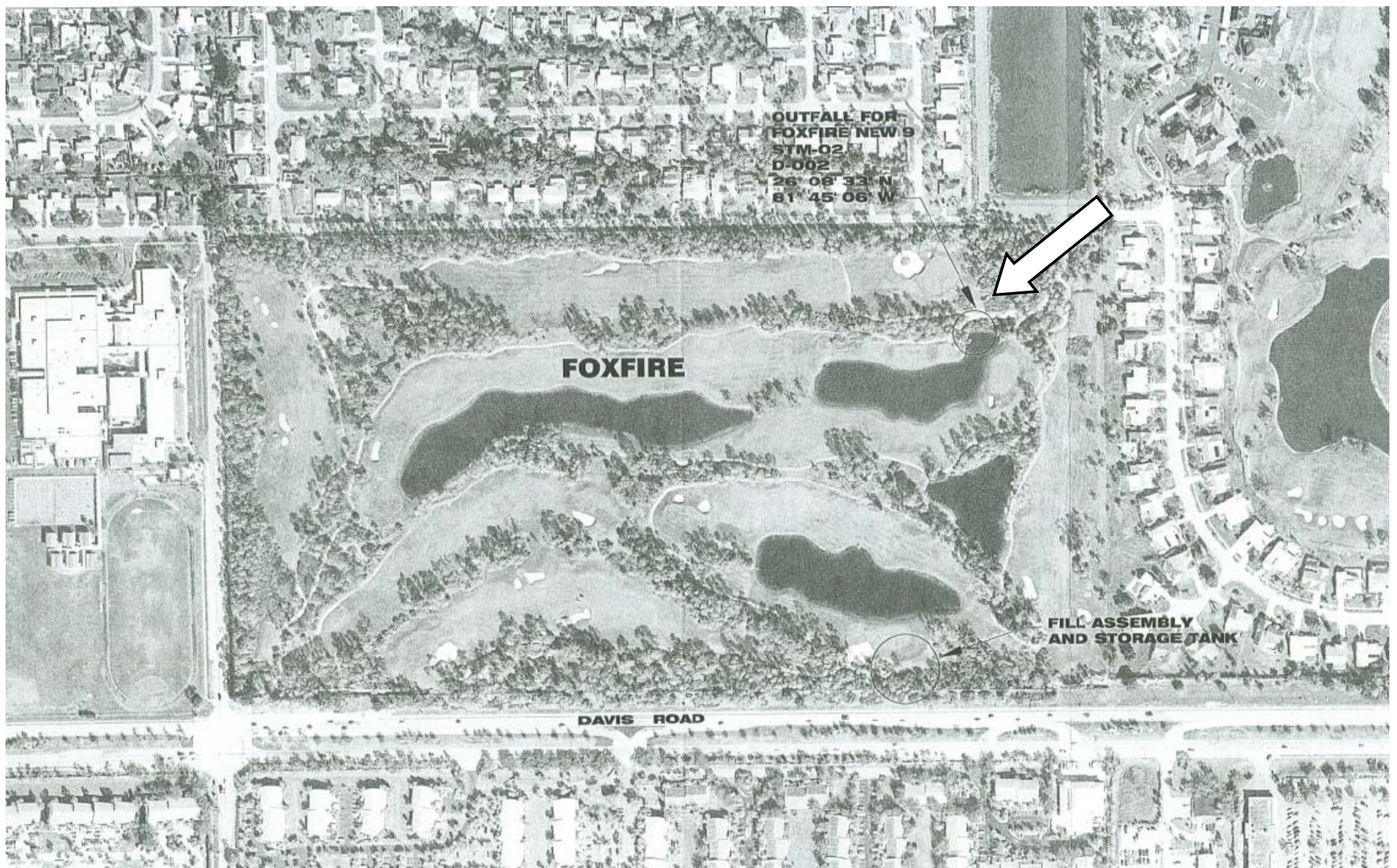
The SFWMD letter of June 13, 2007 indicates that the stormwater management ponds have sufficient volume to serve in both stormwater management and reclaimed water storage capacities. The application states that the ponds have automatic isolation valves that close at an elevation of 4.5 feet, NVGD and reclaimed water will not be discharged to the pond when the elevation of the water is greater than 4.5 feet, NVGD. The stormwater control elevation is 5.0 feet, NVGD, the stormwater control structure has a 6 foot concrete weir crest at 5.8 feet, NVGD and an 11.5 inch wide rectangular bleeder notch at 5.0 feet, NVGD and the stormwater control structure for the north basin intermittently discharges to Rock Creek (Class III Fresh Waters) which is upstream of the Gordon River in Collier County, Florida. Monitoring of flow duration in hours, the number of overflow occurrences per month, and the water elevation in the ponds are to be monitored in accordance with 62-610, FAC and BPJ.

Southwest Basin at the Foxfire 9-hole golf course

The SFWMD letter of June 13, 2007 indicates that the stormwater management ponds have sufficient volume to serve in both stormwater management and reclaimed water storage capacities. The application states that the ponds have automatic isolation valves that close at an elevation of 5.0 feet, NVGD and reclaimed water will not be discharged to the pond when the elevation of the water is greater than 5.0 feet, NVGD. The stormwater control elevation is 5.5 feet, NVGD, the stormwater control structure has a 1.1 foot wide sharp crested weir at 6.3 feet, NVGD and a 6-inch diameter circular bleeder orifice at 5.5 feet, NVGD. The stormwater control structure for the north basin intermittently discharges to and unnamed ditch which is upstream of Rock Creek (Class III Fresh Waters) which is upstream of the Gordon River in Collier County, Florida. Monitoring of flow duration in hours, the number of overflow occurrences per month, and the water elevation in the ponds are to be monitored in accordance with 62-610, FAC and BPJ.



Map of the Outfall D-001 (STM-01) for the Foxfire 18-hole Golf Course



The following table provides the basis for Part I. B. provisions.

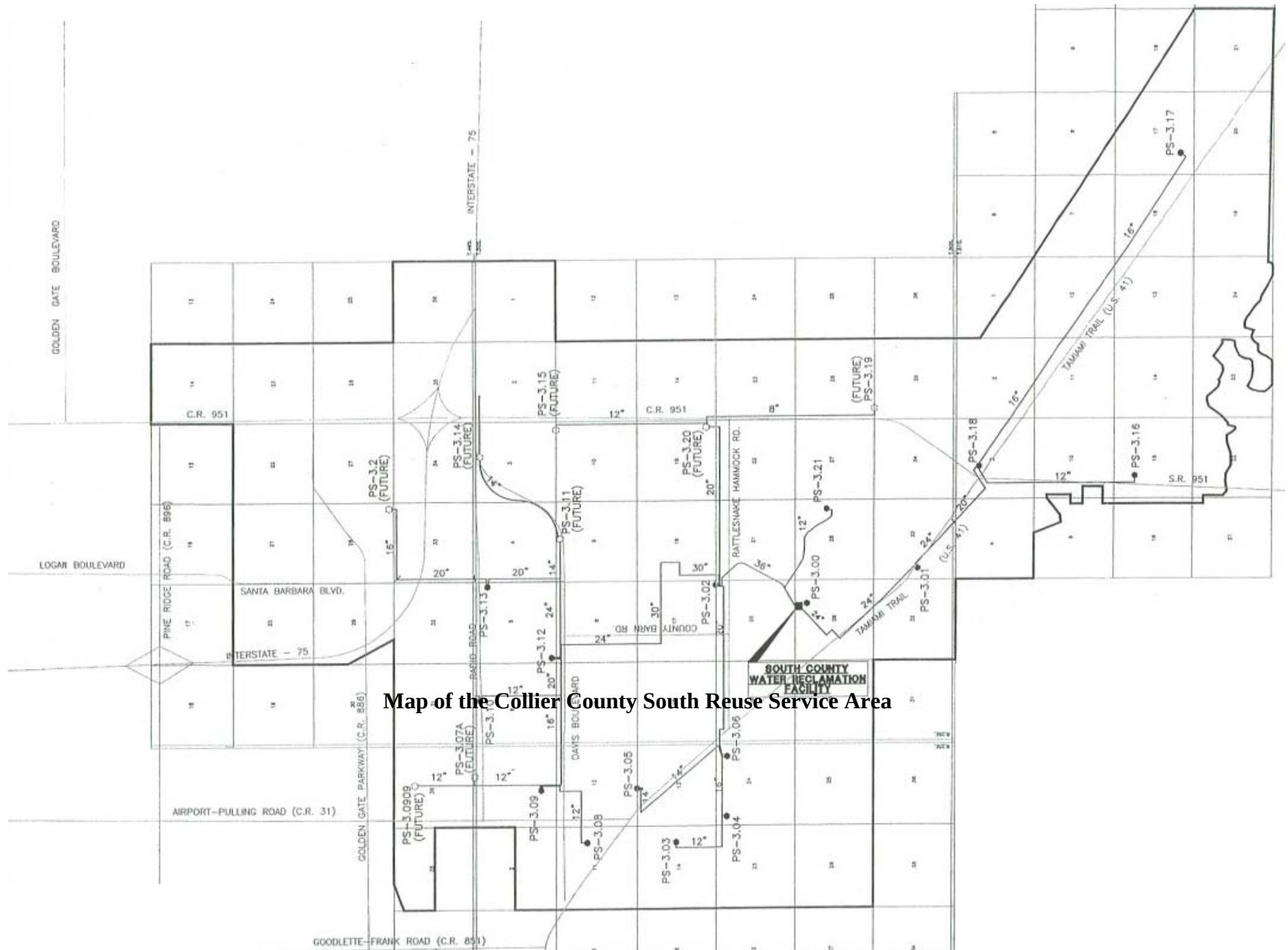
UIC System U-001 (Class I wells to Class G-IV waters):

Parameter	Limit	Basis	Rationale
Flow (MGD)	16.0 18.0	Monthly Average Single Sample Max.	62-601 FAC 62-601 FAC
Flow (MGD)	Report Report	Monthly Average Single Sample Max.	62-601 FAC 62-601 FAC
pH (SU)	6.0 to 8.5	Minimum and Maximum	62-600.445 FAC
BOD, Carbonaceous 5 day, 20C (MG/L)	20 30 45 60	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.540(1) & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Solids, Total Suspended (MG/L)	20 30 45 60	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.540(1) & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Coliform, Fecal (#/100ML)	200 800	Annual Average Single Sample Max.	62-600.440(4)(c)1. FAC 62-600.440(4)(c)4. FAC
Chlorine, Total Residual (MG/L)	0.5 0.5	Single Sample Min. Minimum	62-600.440(4)(b) FAC 62-600, FAC

The following table provides the basis for Part I. C. provisions.

Land Application System R-001 (slow-rate public access):

Parameter	Limit	Basis	Rationale
Flow (MGD)	19.01	Monthly Average	62-601 FAC
Turbidity (NTU)	Report	Single Sample Max.	62-610.463(2) FAC
Chlorine, Total Residual (MG/L)	1.0	Single Sample Min.	62-600.440(5)(b), 62-610.460(2), & 62-610.463(2) FAC
pH (SU)	6.0 to 8.5	Minimum and Maximum	62-600.445 FAC
Coliform, Fecal (#/100ML)	25	Single Sample Max.	62-600.440(4)(c)4. FAC
Solids, Total Suspended (MG/L)	5.0	Single Sample Max.	62-610.460(1) & 62-600.440(5)(f)3. FAC
BOD, Carbonaceous 5 day, 20C (MG/L)	20 30 45 60	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.460 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Total Giardia (CYSTS/100 L)	Report	Single Sample Max.	62-610.463(4)(a)
Total Cryptosporidium (OOCYSTS/100 L)	Report	Single Sample Max.	62-610.463(4)(a)



Map of the Collier County South Reuse Service Area

Bulk Users of Reclaimed Water

User Name	User Type	Existing Capacity (MGD)	Existing Acreage	Anticipated Capacity (MGD)	Anticipated Acreage
Foxfire Community Association of Collier County, Inc.	Golf Courses	0.97	228	0.97	228
Countryside/PCP Venture	Golf Courses	0.55	92	0.55	92
Glades Country Club Apartments Association	Residential Developments	1.90	198	1.90	198
Lely Hibiscus Golf Club	Golf Courses	0.50	140	0.51	144
Lakewood Country Club of Naples, Inc.	Golf Courses	0.41	45	0.41	45
Lakewood Community Services Association, Inc.	Residential Developments	1.00	195	1.00	195
Lely Community Development District	Residential Developments	0.90	230	2.2	558
Lely Golf Course	Golf Courses	1.50	190	1.7	433
Riviera Golf Club of Naples, Ltd.	Golf Courses	0.66	85	0.66	70
Royal Palm Country Club	Golf Courses	1.00	83	1.0	83
Windstar	Golf Courses	0.42	54	0.42	150
Eagle Lake Park	Park	0.01	5	0.01	5
St. Andrews Blvd. Medians	Median	0.01	5	0.01	5
Davis Blvd. Medians	Median	0.03	15	0.06	15
Total (Existing)		9.86	1565	11.40	2221
Fiddlers Creek	Golf Courses	0	0	6.0	1550
Glen Eagle Country Club	Golf Courses	0	0	0.6	150
Boca Ciega Community	Residential Developments	0	0	0.16	40
Royal Wood Golf and Country Club	Golf Courses	0	0	0.93	240
Total (Anticipated)				7.69	1980
Total (Existing and Anticipated)				19.09	4201

Land Application System R-002C (rapid infiltration basin):

Parameter	Limit	Basis	Rationale
Flow (MGD)	Report Report	Annual Average Monthly Average	62-601 FAC 62-601 FAC

Parameter	Limit	Basis	Rationale
Nitrogen, Nitrate, Total (as N) (MG/L)	12	Single Sample Max.	62-610.510(1) FAC
Turbidity (NTU)	Report	Single Sample Max.	62-610.463(2) FAC
Chlorine, Total Residual (MG/L)	0.5	Single Sample Max.	62-610.510 & 62-600.440(4)(b) FAC
pH (SU)	6.0 to 8.5	Minimum and Maximum	62-600.445 FAC
Coliform, Fecal (#/100ML)	25	Single Sample Max.	62-600.440(4)(c)4. FAC
Solids, Total Suspended (MG/L)	5	Single Sample Max.	62-600.740(1)(b)1.d. FAC
BOD, Carbonaceous 5 day, 20C (MG/L)	20 30 45 60	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC

The following table provides the basis for Part I. D. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Limit	Basis	Rationale
Flow (MGD)	16.0	Monthly Average	62-601 FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	Report	Monthly Average	62-600.405(4) FAC
Flow (MGD)	Report	Monthly Average	62-601 FAC
Solids, Total Suspended (MG/L)	Report	Monthly Average	62-601.300(1)FAC
BOD, Carbonaceous 5 day, 20C (MG/L)	Report	Monthly Average	62-601.300(1)FAC
Monitoring Frequency and Sample Type	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	-	All Parameters	62-601, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

3. RESIDUALS MANAGEMENT

The method of residuals use or disposal by this facility is disposal in a Class I or II solid waste landfill.

4. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Rule 62-601, F.A.C.

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

6. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDEGRADATION REQUIREMENTS

This facility does not have a new or expanded discharge.

7. APPLICABLE RULES

The following were used as the basis of the permit limitations/conditions:

a.	FAC refers to various portions of the Florida Administrative Code. The effective dates of FAC Rule Chapters cited in the table are as follows:																																
	<table><tr><th><u>Chapter</u></th><th><u>Effective Date</u></th></tr><tr><td>62-4</td><td>05-01-03</td></tr><tr><td>62-160</td><td>04-09-02</td></tr><tr><td>62-302</td><td>05-15-02</td></tr><tr><td>62-520</td><td>12-09-96</td></tr><tr><td>62-522</td><td>08-27-01</td></tr><tr><td>62-550</td><td>05-28-03</td></tr><tr><td>62-600</td><td>12-24-96</td></tr><tr><td>62-601</td><td>12-24-96</td></tr><tr><td>62-602</td><td>02-06-02</td></tr><tr><td>62-610</td><td>08-08-99</td></tr><tr><td>62-620</td><td>08-25-03</td></tr><tr><td>62-625</td><td>01-08-97</td></tr><tr><td>62-640</td><td>03-30-98</td></tr><tr><td>62-650</td><td>12-26-96</td></tr><tr><td>62-699</td><td>07-05-01</td></tr></table>	<u>Chapter</u>	<u>Effective Date</u>	62-4	05-01-03	62-160	04-09-02	62-302	05-15-02	62-520	12-09-96	62-522	08-27-01	62-550	05-28-03	62-600	12-24-96	62-601	12-24-96	62-602	02-06-02	62-610	08-08-99	62-620	08-25-03	62-625	01-08-97	62-640	03-30-98	62-650	12-26-96	62-699	07-05-01
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b.	FS refers to various portions of the Florida Statutes																																
c.	CFR refers to various portions of the Code of Federal Regulations, Title 40																																
d.	BPJ refers to Best Professional Judgment																																

8. DEPARTMENT CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Brandon Ivey
Engineering Specialist III
Department's South District Office
Department of Environmental Protection,
P. O. Box 2549
Fort Myers, FL, 33902 - 2549
Telephone Number: 239-332-6975
Fax Number: 239-332-6969

9. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 8.

10. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft Permit:

Proposed Issuance Date of Intent:

Proposed Issuance Date of Permit:

