



## **TECHNICAL MEMORANDUM NO. 2**

**PROJECT:**            **Reclassification of the Tampa Bypass Canal, Hillsborough County, From Class III to Class I**

**TITLE:**               **Inventory and Status of Existing Point Source Discharges in the Tampa Bypass Canal Watershed**

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### **PURPOSE AND OBJECTIVES**

This technical memorandum presents an inventory of existing permitted point source discharges located within the Tampa Bypass Canal watershed. The data collected consisted of National Pollutant Discharge Elimination System (NPDES) permits for industrial and domestic wastewater discharges to surface waters. The Tampa Bypass Canal and its tributaries are currently designated as Class III waters. Therefore, all permitted surface water discharges within the watershed must meet Class III water quality standards, excepting those for which variances or exemptions have been authorized.

The purpose of this inventory is to assess those existing permitted facilities that may be impacted by the proposed reclassification. Reclassification may require existing permitted discharges to comply with more stringent Class I standards. Although existing facilities would likely be grandfathered from the higher standards for the remaining duration of their permits, typically five years, the higher standards would apply during the review of requested permit renewals, as well as new permits applications.

### **DATA SOURCES AND METHODS**

Multiple sources were utilized to create the inventory of NPDES permits within the Tampa Bypass Canal watershed. The Florida Department of Environmental Protection's Wastewater Facility Information website (<http://www.dep.state.fl.us/water/wastewater/facinfo.htm>) was searched for all major and minor NPDES permits within the watershed. The website is updated on a monthly basis to include new and/or modified NPDES permits issued during that month. In addition, the U.S. Environmental Protection Agency's NPDES searchable website to view Individual and General NPDES permits (<http://cfpub.epa.gov/npdes/permitissuance/genpermits.cfm>) was utilized. This website is a compilation of copies of NPDES individual and general

permits and fact sheets for major facilities issued after November 1, 2002. This website has not been completed and therefore does not provide all permits.

Data not available from online sources was compiled through file reviews and database searches at the FDEP Southwest District Office. Cynthia Falandysz within the industrial wastewater division provided additional information from the industrial wastewater database. Linda Butler within the domestic wastewater section provided some facility information for minor NPDES permits within the watershed.

After further research, it was determined that the majority of the NPDES permits within the TBC were not surface water discharges; rather they were minor NPDES permits for groundwater discharges. These groundwater discharges may consist of point source discharges into an unlined percolation pond or other similar discharges that require monitoring. The issuance of these minor permits within Hillsborough County has been delegated to the Environmental Protection Commission of Hillsborough County (EPCHC). The information concerning these point sources was gathered by emailing the facility ID to the domestic and industrial sections of the EPCHC. Paula Noblitt from the Industrial Wastewater section, and Edward G. Coppock, P.E. from the Domestic Wastewater section, provided all of the available information for these point sources within the County monitoring system.

Upon completion of the NPDES inventory, all of the available information was provided FDEP to complete any missing data. Through Elsa Potts, Wastewater Programs Administrator, and Chuck Ziegmont, Environmental Administrator for the Wastewater Compliance Evaluation Section, the NPDES inventory was reviewed and all updates to the data were incorporated. It was noted that FDEP is currently in the process of collecting these data, and therefore not all data is available.

## RESULTS

Table 1 summarizes the following inventory information derived from the data review and inventory:

- facility name;
- category;
- discharge type;
- receiving waters and segment discharged to;
- permit type;
- permit number;
- outfall number;
- issue date;
- expiration date;
- status; and
- location coordinates.

These facilities were further sorted by activity status. The activity status is as follows:

- Active (A): Existing, permitted facility/site for which effluent, reclaimed water or wastewater residual discharges into the environment and/or monitoring is taking place.
- Inactive (I): Facility/Site where discharge into the environment is not taking place and monitoring is not taking place.
- Closed, but monitored (C): Facility/site with no discharge into the environment but which is being monitored.
- Exempt (M): No permit required
- No permit (N): Facility known to exist but no permit is on file.

As shown in Table 1, the inventory of NPDES permits within the Tampa Bypass Canal watershed consists of a total of 30 NPDES discharge permits, including one surface water discharge and 29 groundwater discharges.

Limited information was retrieved for the single surface water facility, which is a concrete manufacturing plant. Discharges from this facility apparently only occur when the containment system overflows, as a result of rainfall in excess of the 25-Year, 24-hour storm event. The discharge is to a swale which flows to a pond. There is no direct surface water outfall to the Tampa Bypass Canal or its tributaries.

The remaining NPDES permits within the watershed are all considered to be minor NPDES permits for discharges to groundwater. These discharges may consist of point source discharges into an unlined percolation pond or containment facility, and require monitoring. Based on the available data, none of these facilities have surface water outfalls to the TBC or its tributaries.

The results of the inventory can be summarized as follows:

- 1 active surface water discharge
- 13 active groundwater discharges
- 13 inactive groundwater facilities
- 1 exempt groundwater facility
- 6 inactive groundwater facilities
- 9 groundwater facilities that do not have permits.

## DISCUSSION

Although current water quality conditions Tampa Bypass Canal generally meet Class I standards, permitted industrial wastewater discharges within the watershed represent a potential threat to the continued good source water quality.

The findings of Technical Memorandum No. 1 contained in this petition indicate that the Tampa Bypass Canal generally meets Class I standards currently, except for infrequent minor exceedances for 9 industrial chemicals. The constituents would have exceeded Class I standards during the period of record include:

- Arsenic
- Beryllium
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroform
- Hexachlorobutadiene
- Lindane
- Thallium

These findings reflect the predominance of urban and industrial land uses in the Tampa Bypass Canal watershed. Although none of the NPDES discharge permits identified in this inventory have direct surface water outfalls to the TBC, the permitted discharges to groundwater may be a concern given the importance of groundwater inflows to the TBC water budget. These considerations further underscore the need for additional source water protection.

Table 1

Facilities with NPDES Discharge Permits - Tampa Bypass Canal Watershed																
Facility Name	Subwatershed	Surface Water Discharge	Type	Permit No.	Lat	Long	Issue	Expire	Status	LAT_DD	LAT_MM	LAT_SS	LONG_DD	LONG_MM	LONG_SS	Comments
<b>Hillsborough County - Active (groundwater discharge)</b>																
Paradise Village MHP	Mango	NA	DW	FLA012168	27.9911	-82.3358			A	27	59	28	82	20	9	
Paradise Village # 2-South	Tampa Bypass Canal	NA	DW	FLA012189	27.9869	-82.3447			A	27	59	13	82	20	41	
Bus Service Terminal	Tampa Bypass Canal	NA	DW	FLA012118	28.0333	-82.3417			A	28	2	0	82	20	30	
Rainbow Forest MHP	Vandenburg	NA	DW	FLA012188	28.0331	-82.3364			A	28	1	59	82	20	11	
Grandview MHP	Williams	NA	DW	FLA012216	27.9886	-82.3064			A	27	59	19	82	18	23	
Prevatt MHP	Williams	NA	DW	FLA012187	28.0053	-82.3053			A	28	0	19	82	18	19	
Carousel Village MHP	Williams	NA	DW	FLA012191	27.9944	-82.3375			A	27	59	40	82	20	15	
Daypam MHP	Williams	NA	DW	FLA012185	28	-82.3167			A	27	60	0	82	19	0	
Masters Economy Inn	Williams	NA	DW	FLA012179	28.0028	-82.3047			A	28	0	10	82	18	17	
Cast Crete Corp	Williams	NA	DW	FLA012172	28.0178	-82.3026			A	28	1	4	82	18	9	
Hills. Alt. Residence Program	Williams	NA	DW	FLA012112	28.025	-82.3094			A	28	1	30	82	18	34	
Bay Drums	Mango	NA	IW	FLA012314	27.9694	-82.3333	09/22/82	8/1/1987	I	27	58	10	82	20	0	
FDOT Tampa Maintenance Facility- Wash	Tampa Bypass Canal	NA	IW	FLA012531	27.9691	-82.3651	12/07/93	10/31/98	I	27	58	9	82	21	54	Construction permit only; Exempted
Trax Equipment-Wash Pad	Tampa Bypass Canal	NA	IW	FLA181048	27.9953	-82.3394	2/8/1999	2/7/2004	I	27	59	43	82	20	22	
Sipple Dairy	Williams	NA	IW	FLA012599	27.9944	-82.3283			A	27	59	40	82	19	42	Unpermitted-Under FDEP Regulation
US 92 Speedwash	Williams	NA	IW	FLA012534	28	-82.3047	02/22/05	02/21/10	A	28	0	0	82	18	17	
<b>Hillsborough County - Inactive (groundwater discharge)</b>																
Mango Elem School	Mango	NA	DW	FLA012093	27.9819	-82.3042	3/14/1991	5/15/1991	N	27	58	55	82	18	15	
Russell Dairy	Mango	NA	IW	FLA012597	27.9722	-82.3208			N	27	58	20	82	19	15	Not permitted; No longer exists
Russell Dairy	Mango	NA	IW	FLA012596	27.9744	-82.3289			I	27	58	28	82	19	44	Duplicate facility number
Diamond S Dairy	Mango	NA	IW	FLA012565	27.9786	-82.3264			N	27	58	43	82	19	35	Not permitted; No longer exists
Robinson Dairy	Mango	NA	IW	FLA012594	27.9828	-82.32			N	27	58	58	82	19	12	Not permitted; No longer exists
J.H. Williams Oil Company, Inc.	Tampa Bypass Canal	NA	IW	FLA012358	28.005	-82.355	04/28/95	04/27/00	I	28	0	18	82	21	18	No longer exists; Connected to sanitary sewer in 1996
Hillsborough Co. School Board	Tampa Bypass Canal	NA	IW	FLA012383	28.0333	-82.3417	04/14/92	10/31/92	I	28	2	0	82	20	30	Construction permit only
Lewis & Son Dairy	Vandenburg	NA	IW	FLA012577	28.0161	-82.3283			N	28	0	58	82	19	42	Not permitted; No longer exists
Bullfrog Dairy, Inc	Williams	NA	IW	FLA012560	28	-82.3181			N	28	0	0	82	19	5	Not permitted; No longer exists
FDOT Tampa Maintenance Facility	Tampa Bypass Canal	NA	IW	FLA012341	27.9689	-82.3647			M	27	58	8	82	21	53	Exempted
Helena Chemical Co.	Tampa Bypass Canal	NA	IW	FLA012331	27.9611	-82.3747	05/31/90	02/28/95	N	27	57	40	82	22	29	
Florida State Fair	Tampa Bypass Canal	NA	IW	FLA012279	27.9816	-82.3639			N	27	58	54	82	21	50	No permit issued
Maple Lane Cattle Company	Tampa Bypass Canal	NA	IW	FLA012582	27.9981	-82.3544			N	27	59	53	82	21	16	Not permitted; No longer exists
<b>Hillsborough County - Active (surface water discharge)</b>																
Florida Engineered Construction Products Corp. (Cast Crete)	Williams	Containment system overflow (25-year, 24-hour storm) into swale to pond.	IW?	FL0167363	N/A	N/A	04/19/05	04/18/10	A							This Containment System Overflows, As A Result Of Rainfall In Excess Of The 25-Year, 24-Hour Storm Event, Into A Swale Which Flows To Pond 2.