

EXHIBIT B - REGIONAL SANITARY SEWER SYSTEM OPERATING GUIDELINES

1. Introduction

- a. HRSD interceptor systems, HRSD treatment plants, and locality wastewater systems are interdependent and must be designed and operated as a system using similar design and operating guidelines to provide efficient cost effective and reliable service. This document details the operating guidelines for the Regional Sanitary Sewer System.
- b. These operating guidelines are intended to be practical, prudent and based on the needs of all components of the Regional Sanitary Sewer System.
- c. These Operating Guidelines are in accordance with the Sewage Collection and Treatment (SCAT) Regulations established by the Department of Environmental Quality.
- d. A cooperative and coordinated effort among HRSD and the Localities involving the sharing of information and collective decision making on matters that extend beyond the respective individual systems will help ensure the Regional Sanitary Sewer System will provide the needed wastewater services cost effectively and that water quality is protected.

2. Operating Flow

- a. Facilities designed and constructed in accordance with the Regional Design Guidelines are not intended to be used for the transport of high levels of I/I.
- b. The difference between the operating flow (3 times water consumption) and the design flow is capacity intended for growth and buffer. This buffer will enable portions of the HRSD system to accommodate some level of I/I without having overflows while the responsible locality is working to decrease the amount of I/I. This buffer will also allow time for HRSD to construct additional capacity if needed.
- c. When actual measured peak hourly flows at HRSD Master Meter sites exceed Operating Flow during a 10-year peak flow recurrence event, HRSD will evaluate its sanitary sewer capacity based on the Regional Design Guidelines. When actual measured peak hourly flows at HRSD Master Meter sites or at locality meter sites exceed the Regional Design Guidelines for hydraulic capacity, HRSD along with the affected localities will evaluate their systems. In both cases, HRSD and the affected localities will jointly determine the appropriate course of action.

3. Operating Pressure

- a. The HRSD pressure policy is one criterion for the design and operation of regional sanitary sewer system facilities. The HRSD pressure policy is based in part on the operating elevation of the treatment plants. The operating elevation is described in the

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Development Plan (Section 5-Interceptor System Policies, Paragraph 5.2-Sizing of Facilities) as the centerline elevation of a plant influent pressure reducing station suction line plus ten feet or the maximum design water surface elevation of a treatment plant as appropriate. (*Development Plan 2000*, HRSD, 2003.) This elevation plus 65 feet then determines the maximum energy gradeline for each plant system.

- b. The HRSD pressure policy provides a standard for the maximum pressure conditions to be expected in the HRSD interceptor systems. The actual operating pressures in the interceptor systems under most circumstances will be lower than indicated by the HRSD pressure policy due to low flow conditions, lack of future planned growth, diurnal flow variations, operation of other pump stations along common force mains, and/or operation of pressure reducing stations. However, operating pressures may increase to the level indicated by the HRSD pressure policy due to peak flow conditions, growth, flow diversions, and/or changes in operation of intermediate pressure reducing stations.
- c. The HRSD operating pressure may present design and operating challenges for localities due to the varying pressure conditions between low flow and peak flow conditions. HRSD will operate its Pressure Reducing Stations (PRSs) in a variable speed mode to help maintain pressures within as uniform a band as possible. Changes to operations in the HRSD system shall be coordinated with the affected localities. The Regional Sanitary Sewer System shall be designed to be easily modified over time as required to meet changing pressure conditions.
- d. The HRSD pressure policy is dependant upon proper coordination between the localities and HRSD operations. Recognizing that additional flows within the Regional Sanitary Sewer System will increase pressures, pump station modifications should be coordinated with HRSD and all affected localities.