



Date: June 28, 2000

To: Honorable Board of Directors

From: Richard W. Atwater
Chief Executive Officer/General Manager

Submitted by: Larry S. Rudder
Chief Financial Officer

Robert A. Valenti
Internal Auditor/Management Analyst

Subject: Industrial User Equivalent Dwelling Unit Formula

RECOMMENDATION

It is recommended that the Board consider the following procedures as the new method for computing Equivalent Dwelling Units (EDU's) associated with the Industrial Users' monthly flow.

BACKGROUND

At the request of the Regional Policy and Technical Committees, IEUA coordinated audits in Fiscal Year 1997/98 to review the Member Agencies procedures being used to compute monthly volumetric EDU's. It was found that the Member Agencies were not applying a uniform method in computing EDU's associated with domestic and non-domestic wastewater discharge from Industrial Users. The issue involved differing views among the Member Agencies as to whether the Chino Basin Regional Sewage Service Contract or any subsequent negotiations ever specified the method to use for computing volumetric EDU's associated with Industrial Users.

The Chino Basin Regional Sewage Service Contract Section 20(A) states: "The Equivalent Dwelling Units (EDU) of sewage delivered by the Contracting Agencies shall be determined based on a standard daily measurement or contribution of sewage per EDU agreed to from time to time by the IEUA and the Regional Technical Committee." Accordingly, a new procedure has been developed and is being presented to both the IEUA Board and the Regional Technical Committee for implementation approval. The recommended procedure is identified in Exhibit A.

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IMPACT ON BUDGET

There is no direct impact on the Agency's Fiscal Year 1999/00 Budget as a result of this item.

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INLAND EMPIRE UTILITIES AGENCY
Equivalent Dwelling Unit Formula for Industrial Users

1. Industrial: Shall be defined as those industries identified in the Standard Industrial Classification Manual, Bureau of the Budget, 1987, as amended and supplemented, under the category "Division D – Manufacturing" or Part 1, Sector 31 through 33, of the North American Industry Classification System (NAICS), and such other classes of significant waste product as, by regulation, the Administrator deems appropriate. EDU's shall be determined by one of the following methods:

- a. Category #1, under the Commercial User EDU calculation method, shall be used to calculate the EDU's for Industrial Users who have an average water consumption of 5,000 gallons per day (GPD) or less, excluding water used for landscape purposes. Should it be verified that the User has landscaping and does not have a separate meter for landscape consumption, the computed EDU's may be reduced by up to 45% to account for landscape water use.

The Contracting Agency shall maintain documentation supporting the fact that the User has landscaping. A landscape reduction in excess of 45% may be fact that the used, provided the Contracting Agency documents the justification of such change based upon information submitted by the User to support a higher reduction for their specific case.

For certain Users, it may be found that the Commercial Category #1 method produces significantly different results when compared to the method described in Section (1)(b) below. In such cases, and at the Contracting Agency's discretion, the Contracting Agency may follow the calculation method as described in Section (1)(b) below.

- b. The following method is used to calculate EDU's for Industrial Users who have water consumption in excess of 5,000 GPD, excluding water used for landscape purposes:

Total EDU's = Domestic EDU's + Non-Domestic EDU's

Mathematically, the EDU equation to compute total EDU's is expressed as follows:

$$\text{EDU} = \frac{\text{Domestic Flow}}{270} + \frac{\text{Non-Domestic Flow}}{270} (0.37 + 0.31 \frac{\text{BOD}}{230} + 0.32 \frac{\text{TSS}}{220})$$

Where:

Domestic Flow = (Number of full-time equivalent employees) x (15 GPD)

Non-Domestic Flow* = (Water Supply Flow*) – (Domestic Flow) – (Irrigation Flow) – (Water Lost to Product and/or Evaporation)

Irrigation Flow: If the User does not maintain a separate meter for landscape, irrigation flow is to be computed at .066 gallons per day per square foot of irrigable landscape.

*All measurements of flow will need to be expressed in GPD. 365 days per year is used to compute GPD. Do not use business days of operation if different. The computed EDU's will represent EDU's for a given month. If the Contracting Agency's flow represents GPD for a two-month period, the computed EDU's will need to be doubled when reporting them to IEUA.

2. Procedures for establishing industrial wastewater strength (BOD/TSS) shall be as follows:
 - a. If required by the Contracting Agency, any Industrial User may be required to submit on a yearly basis (on or before the first of July of every year), a 24-hour composite wastewater analysis performed by a certified laboratory. The analysis of the Industrial Users waste strength shall be for BOD, TSS and may include other parameters as required by the Contracting Agency. The results of the required analysis shall be used to determine the EDU formula for the respective Industrial User. The frequency of wastewater sampling and analysis may vary depending on the nature, volume, and diversity of industrial wastewater discharge as determined by the Contracting Agency.
 - b. In the event the Industrial User believes the BOD, TSS, and sewer factor assigned in this Section is no longer applicable, said Industrial User may request review of the EDU formula. The Industrial User may be required to submit the results of a sampling and analysis of its wastewater from a certified laboratory to the Contracting Agency. The frequency of wastewater sampling and analysis may vary depending on the nature, volume, and diversity of industrial wastewater discharged as determined by the Contracting Agency. An adjustment may be made if deemed appropriate by the Contracting

Agency and the adjustment is consistent with the intent of this Section, provided that the Industrial User's average Water Supply Flow is more than 5,000 GPD, excluding water used for landscape irrigation.

- c. If wastewater pretreatment equipment or facility modifications are instituted which change the quality and/or quantity of the industrial wastewater discharge, the Industrial User shall immediately, after instituting the facility modifications or changes, have the effluent from the industrial facility reevaluated as described in Section (2)(a).
 - d. All monitoring and laboratory work must be paid for by the Industrial User.
3. In computing Domestic Flow for Users with average water consumption in excess of 5,000 GPD, full-time equivalent employees shall be computed on at least an annual basis. It should represent the average annual full-time equivalent number of employees of the Industrial User.
 4. The specific wastewater rate calculation criteria, to include the assignment of sewer factors to specific Users, shall be determined by the Contracting Agency for all Users not specifically mentioned under the classifications set forth in this section, in accordance with the provisions of this Section.
 5. When applying any of the preceding EDU calculations, each component item used in the formula shall be documented as to the source of the data and retained on file with the Contracting Agency.

**MINUTES OF AN ADJOURNED REGULAR BOARD MEETING OF
THE BOARD OF DIRECTORS OF
THE INLAND EMPIRE UTILITIES AGENCY
WEDNESDAY, JUNE 28, 2000**

DIRECTORS PRESENT:

John Anderson, President
Anne Dunihue, Secretary/Treasurer
Gene Koopman

DIRECTORS ABSENT:

Terry Catlin, Vice-President
Wyatt Troxel

STAFF PRESENT:

Richard W. Atwater, Chief Executive Officer/General Manager
Jean Cihigoyenette, General Counsel
Larry Rudder, Chief Financial Officer
Douglas Drury, Executive Manager – Operations & Engineering
Martha Davis, Manager of Strategic Policy and Development
Neil Clifton, Manager of Engineering, Energy, and Water Resources
Craig Parker, Supervising Civil Engineer
Garth Morgan, Water Resources Engineer
Kati Ooten, Senior Associate Engineer
Gary Hackney, Manager of Planning and Process Engineering
Matthew Poeske, Senior Associate Engineer
Cameron Langner, Manager of General Services
Jack Frazier, Manager of Operations, CCWRF/RP-2
Fred Mouat, Manager of Information Services
Michael Chung, Manager of Finance & Accounting
Robert Valenti, Internal Auditor/Management Analyst
Tina Cheng, Budget Officer
Christina Valencia, Financial Analyst
Carol Montag, Financial Analyst
Patrick King, Manager of Human Resources
Sondra Elrod, Public Information Officer
April Woodruff, Administrative Assistant
Patti Bonawitz, Board Secretary

OTHERS PRESENT:

Karen Williams, Chino Basin Watermaster Services
Traci Stewart, Chino Basin Watermaster Services
Robert DeLoach, Cucamonga County Water District
Tom Dodson, Tom Dodson & Associates
Tami Fincher, Tom Dodson & Associates
Peter N. Brown, Hatch & Parent
David Crosley, City of Chino
Deborah Clark, Inland Valley Daily Bulletin
Mike Maesta, City of Chino Hills

M2000-6-17, Continued

- G. The Board:
- approved the proposed amendment to the FY 1999/2000 Amended Budget to establish an appropriation of \$75,000 in Account No. WC-420-310-6129 for a consultant for the application and acquisition of State and Federal grants;
 - awarded a contract to Franklin D. Dryden for consulting services associated with the application and acquisition of State and Federal grants for recycled water projects; and
 - authorized the Chief Executive Officer/General Manager to execute the contract for consulting services.
- H. The Board received and filed the informational update regarding SAWPA Project Agreement No. 10.
- I. The Board approved a budget amendment for FY 1999/2000 in the amount of \$375,000 for interest expense - Account No. WC 230-310-6766, accrued on the \$6,250,000 loan from the Regional Capital Improvement Fund to the Recycled Water Capital Improvement Fund.
- J. The Board approved a budget amendment for FY 1999/2000, in the amount of \$7,709 for Account No. NC 515-410-6132, to pay costs for industrial waste permit review and annual capital costs bill preparation by the County of Sanitation Districts of Los Angeles County.
- K. The Board approved the recommended method for computing monthly volumetric EDUs associated with the Industrial Users' monthly flow.

PUBLIC HEARING FOR THE DRAFT PROGRAM ENVIRONMENTAL IMPACT REPORT (EIR) FOR THE CHINO GROUNDWATER BASIN'S OPTIMUM BASIN MANAGEMENT PLAN

Manager of Engineering, Energy, and Water Resources Neil Clifton briefly reviewed the purpose of the public hearing. Tom Dodson, the consultant who prepared the draft Program EIR, reviewed the framework for considering the draft EIR, and the summary of findings. Mr. Dodson stated that all future projects will be evaluated in the context of this document, once this document is approved and certified by the Board at its meeting on July 12, 2000, as well as explained the benefits of utilizing a programmatic document, i.e., that you can move forward immediately with future projects as long as it falls within the scope of this document -- and that any additional impacts that may need mitigation measures, which were not addressed in this document, may be handled through a negative declaration.

Mr. Dodson stated that the comment period was extended from 30 days to 45 days, and to date 15 comment letters had been received from a variety of agencies; in which 13 1/2 responses have been prepared. With the assistance of IEUA staff, Mr. Dodson anticipated that all comments would be formally addressed by the end of the week, and that procedurally the Agency would meet all the necessary requirements associated with CEQA filing, etc. Some of the comments received included: 1) that every future project should require a negative declaration (to provide for a sufficient