

**SOAH DOCKET NO. 473-17-0119.WS  
PUC DOCKET NO. 46245**

**DIRECT TESTIMONY AND WORKPAPERS  
OF NELISA HEDDIN**

**WBRG-1I  
Excerpts from DDU Rate Change Application  
(December 8, 1997)**

44056



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION



File No. 11031400

Effective Date 2015 JAN -6 AM 7-20

RECEIVED  
PUBLIC UTILITY COMMISSION  
FILING CLERK  
JAN 8 2015  
UTILITY RATE

RATE/TARIFF CHANGE APPLICATION  
Water and Sewer Utilities

1. Applicant Double Diamond Utilities Co. is a(n):  
(Utility Name)

- Individual
- Corporation 302080  
(Charter Number)
- Member Owned WSC
- Partnership
- Other Non-Profit Corporation
- Sub Chapter-S Corporation
- Other, please explain \_\_\_\_\_

Business Address 3500 Maple Ave., Suite 1400 Business Telephone (214)-526-9801  
(Street address must be entered here - P. O. Box may also be entered) (Area Code-Number)

Dallas Dallas Texas 75219  
(City) (County) (State) (Zip Code)

Contact Person: Randy R. Gracy (214)-526-9801  
(Name of Person to be Contacted) (Area Code-Telephone Number)

3500 Maple Ave., Suite 1400 Dallas, Texas 75219  
(Address) (City) (State) (Zip Code)

2. List the complete schedule of the present rate structure or applicable tariff provision, including membership, tap, and reconnect fees, etc., if any.

Exhibit " A "

3. List the proposed rate structure or tariff change and the percentage increase in gross revenue that the utility expects the proposed rates structure to furnish as opposed to that furnished by the existing rate structure. (Items shown in 2 above not being changed should be listed again as unchanged.) 20 % increase water  
500 % increase sewer

Exhibit " B "

4. On what date does Applicant intend the proposed rate structure or tariff change to take effect? Jan. 10, 19 98. (Please note: The date must be at least thirty days after the date the application is filed with the Texas Natural Resource Conservation Commission and the date notice is mailed to customers in order to satisfy the statutory notice requirements.)

5. Applicant  (has)  (has not) been granted a certificate of convenience and necessity:  
Certificate No. 2070 and 12087

6. In which county or counties does Applicant serve? Palo Pinto, Hill, Henderson  
Please list each subdivision affected by this rate change: White Bluff, The Cliffs, and Oakwood  
Subdivisions \_\_\_\_\_

7. Does Applicant serve within the corporate or town limits of any municipality?  
 No  
 Yes If yes, which municipality or municipalities? \_\_\_\_\_  
If yes, how many of Applicant's Customers are located within such limits? \_\_\_\_\_  
If yes, has Applicant filed a concurrent petition to change its rates with the governing body of the municipality or municipalities?  
 Yes  
 No If No, explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. How many customers do you presently have in each of the following classes:  
Residential CL 22 WB 182 OW 62 Industrial \_\_\_\_\_ Commercial Business CL 24 WB 28  
Sewer  
Cities \_\_\_\_\_ Others (Please Explain) CL 44 WB 172 OW 0 = 216  
Total Number Water customers = 318 Sewer customers = 216

9. Determine a Test Period (the most recent 12-month period for which representative operational information is available ending less than 12 months before the date of the application is filed with the Commission.)  
The Test Period twelve (12) months ended December 31, 19 96  
The preceding twelve (12) month period ended December 31, 19 95

10. Please list below the licensed operators employed by the utility, and current level of certification (A, B, C, or D), and average hours.

| <u>Name</u>           | <u>Level of Certification</u> | <u>Weekly Hours Worked</u> |
|-----------------------|-------------------------------|----------------------------|
| <u>Bill Oliver</u>    | <u>"C" Water / "C" Sewer</u>  | <u>40</u>                  |
| <u>Burnie Western</u> | <u>"C" Water</u>              | <u>40</u>                  |
| <u>Wayne Kunkle</u>   | <u>"D" Water / "D" Sewer</u>  | <u>40</u>                  |
| <u>Kerry Locke</u>    | <u>"D" Water</u>              | <u>40</u>                  |
| <u>Ron Cannon</u>     | <u>"D" Water / "D" Sewer</u>  | <u>40</u>                  |
| _____                 | _____                         | _____                      |

12. Complete Schedule B-1 and B-2.

**SCHEDULE B-1 - BALANCE SHEET - ASSETS**

The amounts entered should only be actual recorded amounts. If the amounts are allocated between water and sewer or between the utility and another business, provide the Commission with the allocations and method used to allocate. Do not enter estimated or budgeted amounts.

|  | <u>Date: Jan _____, 1996</u><br><u>Beginning of Test Year</u> | <u>Date: Dec. _____, 1996</u><br><u>End of Test Year</u> |
|--|---|--|
| <b>FIXED ASSETS</b>                      |   |  |
| Utility plant                            | a <u>1,173,977.00</u>   | <u>1,515,000.00</u>                                      |
| (original cost when placed in service )  |   |  |
| Less: Accumulated depreciation           | b <u>(458,031.00)</u>   | <u>(341,081.00)</u>                                      |
| <b>TOTAL UTILITY PLANT (a - b)</b>       | c <u>715,946.00</u>   | <u>1,173,919.00</u>                                      |
| Non-Utility plant                        | d _____   | _____  |
| Less: Accumulated depreciation           | e _____   | _____  |
| <b>TOTAL NON-UTILITY PLANT (d - e)</b>   | f _____   | _____  |
| Construction work in progress            | g _____   | _____  |
| Plant acquisition adjustment             | h _____   | _____  |
| (positive or negative)                   |   |  |
| Less: Accumulated amortization of plant  |   |  |
| acquisition adjustment                   | i _____   | _____  |
| <b>Net unamortized plant acquisition</b> | j _____   | _____  |
| <b>adjustment (h - i)</b>                |   |  |
| <b>CURRENT ASSETS</b>                    |   |  |
| Cash in bank                             | k <u>4250.42</u>  | <u>6145.93</u>   |
| Petty cash                               | l _____   | _____  |
| Cash reserve account                     | m _____   | _____  |
| Material and supplies (inventory)        | n _____   | _____  |
| Accounts receivable                      | o _____   | _____  |
| Less: Allowance for uncollectables       | p _____   | _____  |
| Other                                    | q _____   | _____  |
| <b>TOTAL CURRENT ASSETS</b>              | r <u>4250.42</u>  | <u>6145.93</u>   |
| (k through q)                            |   |  |
| <b>DEFERRED ASSETS</b>                   |   |  |
| Prepaid insurance                        | s _____   | _____  |
| Other                                    | t _____   | _____  |
| <b>TOTAL DEFERRED ASSETS (s + t)</b>     | u _____   | _____  |
| <b>TOTAL ASSETS</b>                      | v <u>720,196.42</u>   | <u>1,180,064.93</u>                                      |
| (c+f+g+j+r+u)                            |   |  |

**SCHEDULE B-2 - BALANCE SHEET - LIABILITY AND CAPITAL**

|   | Date: <u>Jan.</u> , 19 <u>96</u><br><u>Beginning of Test Year</u> | Date: <u>Dec.</u> , 19 <u>96</u><br><u>End of Test Year</u> |
|---|---|---|
| <b>CAPITAL</b>  |   |   |
| Ownership equity (Sole Proprietorships or Partnerships only)                      | a   | _____   |
| Shareholders investments (Sub Chapter-S)  | b   | <u>634,993.36</u>   |
| Members investments (Cooperative only)  | c   | <u>877,064.93</u>   |
| Common stock (Corporations only)  | d   | _____   |
| Retained earnings   | e   | _____   |
| Other   | f   | _____   |
| <b>TOTAL CAPITAL (a through f)</b>  | g   | <u>634,993.36</u> <u>877,064.93</u>                         |
| <b>LONG-TERM LIABILITIES</b>  |   |   |
| Notes payable (Schedule B-4)  | h   | _____   |
|   | i   | <u>293,000.00</u>   |
| <b>TOTAL LONG-TERM LIABILITIES (h + i)</b>  | j   | <u>0</u> <u>293,000.00</u>                                  |
| <b>CURRENT LIABILITIES</b>  |   |   |
| Accounts payable  | k   | <u>10,000.00</u>  |
| Notes payable (mature in less than 1 year) (Schedule B-4)                         | l   | <u>85,203.06</u> <u>0</u>                                   |
| Customer deposits   | m   | _____   |
| Taxes payable   | n   | _____   |
| Other current and accrued liabilities   | o   | _____   |
| <b>TOTAL CURRENT LIABILITIES (k through o)</b>                                    | p   | <u>85,203.06</u> <u>10,000.00</u>                           |
| <b>DEFERRED LIABILITIES</b>   |   |   |
| Accumulated deferred income taxes   | q   | _____   |
| Accumulated deferred investment tax credits                                       | r   | _____   |
| Other   | s   | _____   |
| <b>TOTAL DEFERRED LIABILITIES (q through s)</b>                                   | t   | _____   |
| <b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>                                       |   |   |
|   | u   | _____   |
| <b>TOTAL CAPITAL AND LIABILITIES (g+j+p+t+u) (Should agree with Total Assets)</b> | v   | <u>720,196.42</u> <u>1,180,064.93</u>                       |

16. Construction and Expansion Program - Please explain fully:

- a. Have you made a water service demand forecast, and do you have a proposed expansion project of program related to this forecast (projection)?

Yes   X   No \_\_\_\_\_ If yes:

- (1) What is the population projection?

We are at the engineering stage for expansion of the water system at The Cliffs.

- (2) What is the growth potential for your area in the next two years; what factors will influence it?

Continually increased area under extensive development.

- (b) What plans do you have for system expansion? Please provide a copy of the engineering report, if available.

Installation of a 50,000 GPD packaged WWTP at White Bluff. TNRCC permit #13786-002 was issued May 24, 1996. Engineering is in progress by A.N.A. Consultants of Ft. Worth, Texas for The Cliffs water expansion.

- (c) Have you retained a consulting engineer to make a study or plan for your area? If so, who is the engineer (what firm)?

Yes, A.N.A. Consultants

- (d) What capability do you have with your present facilities to serve future growth or demand on your system?

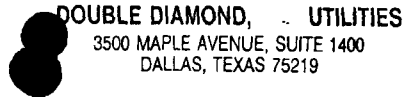
Upon completion of the White Bluff plant no further expansion is required to meet immediate growth needs.

- (e) What construction work, if any, is in progress?

None

17. Complete Schedule B-3W. Provide an inventory and description of company facilities used and useful in providing utility service and the original cost and date of installation of each item. Please fill out the schedules on a system by system basis. If the Applicant provides sewer service, please complete Schedule B-3S.

- a. Please provide documentation to support the plant items and installation dates listed on Schedule B-3W and B-3S unless they have been established in a prior rate case. Please provide documentation for plant additions since the last rate case.



## White Bluff Question #17

- 307 Wells  
White Bluff -PWS # 1090073 -A  
@) 1200' water well, 6 ½" casing, gravel packed & pressure cemented, 120 gpm ea.
- 311 Pump  
20 hp submersible pump well "A"  
50 hp submersible pump well "B"
- 320 Chemical feeding Equipment  
a 10 lb. Per day advance gas chlorinator with accessories at well "A"  
a 10 lb. Per day advance gas chlorinator with accessories at well "B"
- 330 Tanks  
elevated storage, 110' stand pipe 10' diameter at well "A"  
elevated storage, 110' stand pipe 12' diameter at well "B"
- 331 Distribution System  
approximately 240,000 LF of potable water mains consisting of 2", 4", & 6" SDR-26 class 160 PSI PVC pipe.

The White Bluff Sewer System includes a 50,000 gpd package treatment plant and low pressure collection mains consisting of 2", 4" & 6" SPR-26 class 160 PSI PVC pipe.

DOUBLE DIAMOND UTILITIES  
3500 MAPLE AVENUE, SUITE 1400  
DALLAS, TEXAS 75219

## The Cliffs

The Cliffs water system includes four 48" Yardney sand filters, three five Micron Eden cartridge filters, two reverse osmosis units by international Water, Inc., each with one Tonkaflow 30 hp pumps and eight 20' tubs with 4" elements (thin film composite membranes.) Chlorination and chemical injection with two Pulstrom injectors and three Milton - Roy injectors. Two 100,000 gallon galvanized bolted tanks. Two 40 hp Berkley pressure pumps with controls and 10,000 gallon hydorpneumatic pressure tank.

The Cliffs Sewer System included a 25,000 gpd package treatment plant and low pressure collection mains consisting of 2", 4" & 6" SDR-26 Class 160 PSI PVC Pipe.



18. Attach a summary of all complaints received and interruptions of service during the last twelve (12) months (immediately preceding the filing of this application).
19. *Water Utilities:* Attach a copy of the most recent public water system survey letter(s) from the TNRCC or its predecessor agencies, the Texas Water Commission (TWC) or the Texas Department of Health (TDH), and address all deficiencies noted in the report(s), if any. Exhibit " E "
20. *Sewer Utilities:* Attach a copy of the applicable waste discharge permit from the TNRCC or the TWC (predecessor agency) and results of the most recent inspection. Please address all deficiencies noted in the inspection report(s), if any. Exhibit " F "
21. List all short-term and long-term Notes Payable (debt):

SCHEDULE B-4

|    | <u>Date of Issue</u> | <u>Date of Maturity</u> | <u>Outstanding Principal At End of Test Year</u> | <u>Interest Rate</u> | <u>Annual Payment Principal/Interest</u> | <u>Payable to Whom</u> |
|----|----------------------|-------------------------|--|----------------------|--|------------------------|
| 1. | 1/1/97               | 20 years<br>2017        | 293,000.   | 10%                  | 4898.43 29120.09                         | Double Diamond, Inc.   |
| 2. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
| 3. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
| 4. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
| 5. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
| 6. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
| 7. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
| 8. | _____                | _____                   | _____  | _____                | _____                                    | _____                  |
|    |                      | TOTAL *                 | 293,000  |                      | 4898.43 29120.09                         |                        |

22. Purpose/Use of each Loan:

Acquisition cost for Utility Systems

\*Must agree with total of Notes Payable on Balance Sheet, Schedule B-2.  
Long Term Notes Payable (more than one year) + Short Term (Current) Notes Payable (less than one year)

23. a. Cash ~~\_\_\_\_\_~~ balance as of rate filing = \$ 0
- b. Reserve account/time deposits as of rate filing = \$ 0

24. Complete where applicable:

- a. Total Water Purchased = 24,895,000 gallons during test year.  
Source: = The Cliffs-Utility MGR Bill Oliver
- b. Total Water Pumped = 64,065,000 gallons during test year.
- c. Total Water Billed = 63,925,783 gallons during test year.
- d. Average Number of Water Customers Served = 270 for 12 months of test year.
- e. Average Number of Sewer Customers Served = 128 for 12 months of test year.
- f. Average per Customer Consumption 8608 gallons/month for 3/4 inch or smaller meters.
- g. Is test year annual growth representative of future annual growth?  Yes  No

If no, explain why growth will increase/decrease in relation to the test year.  
n/a

- h. Average monthly consumption per customer (3/4 inch or smaller meter) for each of the two years prior to the test year = 6200 gallons per month.  
= 5400 gallons per month.

Please explain the reasons for significant variations in usage over these years.

n/a

25. How many customers used less than the gallonage included in the minimum monthly bill during the months of: November 58, December 34, January 75, and February 63?

26. a. Test Year Water Customer Breakdown

| WATER             |                                      |   |  |                              |
|-------------------|--------------------------------------|---|--|------------------------------|
| <u>Meter Size</u> | <u>Beginning Number of Customers</u> | <u>Customers Added During Test Year</u> | <u>Customers Lost During Test Year</u> | <u>Total No. at Year End</u> |
| 5/8"              | <u>148</u>                           | <u>56</u>                               | <u>2</u>                               | <u>202</u>                   |
| 3/4"              | <u>291</u>                           | <u>5</u>                                | <u>270</u>                             | <u>26</u>                    |
| 1"                | <u>7</u>                             | <u>13</u>                               |  | <u>20</u>                    |
| 1-1/2"            | <u>7</u>                             | <u>3</u>                                |  | <u>10</u>                    |
| 2"                | <u>6</u>                             | <u>7</u>                                |  | <u>13</u>                    |
| (other) _____     |                                      |   |  |                              |
| Dry Taps          |                                      |   |  |                              |
| TOTALS            | <u>459</u>                           | <u>84</u>                               | <u>272</u>                             | <u>271</u>                   |

- b. If sewer service is provided, attach a similar customer breakdown for sewer customers.
- c. Do variations in meter size reflect variations in consumption demand?  Yes  No.  
If no explain.

23. a. Cash ~~bank~~ balance as of rate filing = \$ \_\_\_\_\_
- b. Reserve account/time deposits as of rate filing = \$ \_\_\_\_\_

24. Complete where applicable:

- a. Total Water Purchased = \_\_\_\_\_ gallons during test year.  
Source: \_\_\_\_\_
- b. Total Water Pumped = \_\_\_\_\_ gallons during test year.
- c. Total Water Billed = \_\_\_\_\_ gallons during test year.
- d. Average Number of Water Customers Served = \_\_\_\_\_ for 12 months of test year.
- e. Average Number of Sewer Customers Served = \_\_\_\_\_ for 12 months of test year.
- f. Average per Customer Consumption \_\_\_\_\_ gallons/month for 3/4 inch or smaller meters.
- g. Is test year annual growth representative of future annual growth?  Yes  No  
If no, explain why growth will increase/decrease in relation to the test year.
- h. Average monthly consumption per customer (3/4 inch or smaller meter) for each of the two years prior to the test year = \_\_\_\_\_ gallons per month.  
= \_\_\_\_\_ gallons per month.

Please explain the reasons for significant variations in usage over these years.

25. How many customers used less than the gallonage included in the minimum monthly bill during the months of: November \_\_\_\_, December \_\_\_\_, January \_\_\_\_, and February \_\_\_\_?

26. a. Test Year Water Customer Breakdown  
SEWER

| <u>Meter Size</u> | <u>Beginning Number of Customers</u> | <u>Customers Added During Test Year</u> | <u>Customers Lost During Test Year</u> | <u>Total No. at Year End</u> |
|-------------------|--------------------------------------|---|--|------------------------------|
| 5/8"              | 202                                  | 45                                      | 75                                     | 172                          |
| 3/4"              | _____                                | _____                                   | _____                                  | _____                        |
| 1"                | _____                                | _____                                   | _____                                  | _____                        |
| 1-1/2"            | _____                                | _____                                   | _____                                  | _____                        |
| 2"                | _____                                | _____                                   | _____                                  | _____                        |
| (other) _____     | _____                                | _____                                   | _____                                  | _____                        |
| Dry Taps          | _____                                | _____                                   | _____                                  | _____                        |
| <b>TOTALS</b>     | 202                                  | 45                                      | 75                                     | 172                          |

b. If sewer service is provided, attach a similar customer breakdown for sewer customers.

c. Do variations in meter size reflect variations in consumption demand?  Yes  No.  
If no explain.

31. This space is provided for the explanation(s) and computation(s) of the changes reflected in Column B above. Attach additional sheets, if necessary.

Exhibit " H "

32. Complete the following schedule for net invested capital, or rate base:

**Note: If both water and sewer rate or tariff changes are requested, separate schedules must be completed for each system.**

|  |    |                 |
|--|----|-----------------|
| Plant in service   | a. | \$ 1,515,000.00 |
| Less: Accumulated depreciation                               | b. | (341,081.00)    |
| Net plant in service (a-b)                                   | c. | \$ 1,173,919.00 |
| Construction-work-in-progress                                | d. | \$              |
| Working cash allowance (= to 1/8 operations and maintenance) | e. | \$ 21,540.00    |
| Materials and supplies inventory                             | f. | \$              |
| Prepayments  | g. | \$              |
| Less: Deferred federal income taxes                          | h. | ( )             |
| Deferred investment tax credits                              | i. | ( )             |
| Contributions in aid of construction                         | j. | ( )             |
| Net Invested Capital (Rate Base)                             | k. | \$ 1,195,459.00 |
| (c+d+e+f+g-h-i-j)  |    |                 |

33. Please indicate the rate of return desired on net invested capital to produce the amount requested for net operating income/return on line "t", column C in item 30. Please explain why this rate of return is appropriate for the utility.

The designed rate of return of 8% cannot be achieved with the proposed rate with the current numbers of customers.

34. If the applicant is a corporation, please provide a copy of the corporation's "Certification of Account Status" from the State Comptroller's Office. This "Certification of Account Status" can be obtained from:

Exhibit " I "

Comptroller of Public Accounts  
Office Management  
P. O. Box 13528, Capitol Station  
Austin, Texas 78711  
1-800-252-5555

35. Please provide a copy of your report for payment of the Texas Natural Resource Conservation Commission's regulatory assessment fee.

Exhibit " J "

36. Please make any additional comments you feel are necessary to support this application, including unique characteristics of the system not covered elsewhere in this application.

**SOAH DOCKET NO. 473-17-0119.WS  
PUC DOCKET NO. 46245**

**DIRECT TESTIMONY AND WORKPAPERS  
OF NELISA HEDDIN**

**WBRG-1J  
Excerpts from PFD  
SOAH Docket No. 582-08-0698  
(June 15, 2009)**

**SOAH DOCKET NO. 582-08-0698  
TCEQ DOCKET NO. 2007-1708-UCR**

|   |   |                                |
|---|---|--------------------------------|
| <b>APPLICATION OF DOUBLE</b>            | § | <b>BEFORE THE STATE OFFICE</b> |
| <b>DIAMOND UTILITIES, INC. TO</b>       | § |                                |
| <b>CHANGE ITS WATER RATES AND</b>       | § |                                |
| <b>TARIFF, IN HILL, PALO PINTO, AND</b> | § | <b>OF</b>                      |
| <b>JOHNSON COUNTIES, TEXAS,</b>         | § |                                |
| <b>APPLICATION NO. 35771-R</b>          | § | <b>ADMINISTRATIVE HEARINGS</b> |

**PROPOSAL FOR DECISION**

**I. INTRODUCTION**

Double Diamond Utilities, Inc. (DDU) has filed an application to increase the rates for its retail water utility service. DDU serves three separate developments and seeks to change its rates for all three public water systems: The Cliffs in Palo Pinto County,<sup>1</sup> the Retreat in Johnson County,<sup>2</sup> and the White Bluff development in Hill County.<sup>3</sup>

The Executive Director (ED), the Office of Public Interest Counsel (OPIC), White Bluff Subdivision Ratepayers (WBSR), and other Protestants contend that DDU failed to meet its burden of proof to demonstrate that the proposed increase would be just and reasonable. They differ, however, on what DDU's rates should ultimately be at the conclusion of this proceeding. The ED recommends that DDU's rates should revert back to their levels before the filing of this application. WBSR, on the other hand, would roll back DDU's rates to levels lower than those previously in effect.

The Administrative Law Judge (ALJ) agrees that DDU has not met its burden of proof. There are numerous discrepancies between DDU's applications and its supporting documentation. DDU failed to demonstrate how it set its rates and how those rates were just and reasonable. DDU also failed to demonstrate how it met the regulatory criteria to allow consolidation of two of its water systems under one rate. Furthermore, DDU apparently failed to

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<sup>1</sup> The Cliffs water system was begun in 1993 and has 228 connections.

<sup>2</sup> The Retreat water system was begun in 2003 and has 48 connections.

<sup>3</sup> The White Bluff water system was begun in 1990 and has 553 connections.

account for developer contributions in this rate case. Along with these issues and the other numerous discrepancies between its application and its supporting documentation, the ALJ recommends that the application be denied. The ALJ also recommends that the Commission set DDU's rates at those levels existing before DDU filed its application in August of 2007. DDU should also be ordered to refund or credit to customers all sums collected since the effective date of the rates at issue in this hearing that exceeded its prior rates, plus six percent interest on the over-collections.

## II. JURISDICTION

No party disputes the jurisdiction of either the Commission or the State Office of Administrative Hearings (SOAH).

## III. PROCEDURAL HISTORY

On August 7, 2007, DDU filed its first application to change its rates for the water service provided under Certificate of Convenience and Necessity (CCN) No. 12087.<sup>4</sup> Notices of the application were mailed to DDU's customers on July 27, 2007.<sup>5</sup> The effective date of the increase was September 28, 2007.<sup>6</sup> In December of 2007, DDU submitted a new document purporting to make corrections to the August 2007 application.<sup>7</sup>

More than ten percent of DDU's customers filed protests by the applicable deadline. On November 14, 2007, the Chief Clerk mailed notice of a preliminary hearing to DDU. However, on November 29, 2007, SOAH issued an order requiring that the preliminary hearing be held in Hillsboro, Texas, on February 5, 2008.

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<sup>4</sup> DDU Exh. 30. DDU's exhibits were marked in the hearing as "App. Exh." For ease of reference and clarity, the ALJ will refer to all of DDU's exhibits as "DDU Exh." in this proposal for decision.

<sup>5</sup> DDU Exh. 30, pg. 36. Unless otherwise noted, all references to page numbers refer to the Bates stamped number of the exhibit, not the page number of the document itself.

<sup>6</sup> DDU Exh. 30, pg. 36.

<sup>7</sup> DDU Exh. 25.

Accordingly, the Chief Clerk mailed the revised notice of a preliminary hearing to DDU on December 13, 2007. DDU mailed the revised notice of the preliminary hearing to its customers on January 9, 2008.<sup>8</sup> The notice contained a statement of the time, place, and nature of the hearing; a statement of the legal authority and jurisdiction under which the hearing was to be held; a reference to the particular sections of the statutes and rules involved; and a short, plain statement of the matters asserted.<sup>9</sup>

On February 5, 2008, SOAH held the preliminary hearing as indicated in the notice. The following attended and were admitted as parties:

| PARTY                              | REPRESENTATIVE   |
|------------------------------------|------------------|
| DDU                                | Michael Skahan   |
| ED                                 | Stephanie Skogen |
| OPIC                               | Eli Martinez     |
| WBSR                               | Shari Heino      |
| Jack and Sandra McCartney          | Themselves       |
| The Cliff's Subdivision Ratepayers | Todd McCall      |

The ALJ held the hearing on the merits on February 23-24, 2009, and all of the parties appeared and participated. The following witnesses testified in this case:

| WITNESS  | PARTY | SUBJECT                                 |
|--|-------|---|
| Kevin Shea, Vice President, Accounting             | DDU   | Accounting issues                       |
| Randy Gracy, President                             | DDU   | Corporate issues                        |
| Charles Gillespie, Jr., Consultant                 | DDU   | Application issues                      |
| Nelisa Heddin                                      | WBSR  | Application issues                      |
| Elsie Pascua, Accountant/Auditor                   | ED    | Cost of service and revenue requirement |
| Brian David Dickey, General Engineering Specialist | ED    | Rate design and depreciation schedules. |

<sup>8</sup> ED Exh. D.

<sup>9</sup> ED Exh. D.



development would be subsidizing the newer development. This would not result in water rates that are just and reasonable for the White Bluff ratepayers.

### C. Developer Contributions and the Effect on Invested Capital

In setting the rates for water service, the Commission must fix a utility's overall revenues at a level that will, among other things, "permit the utility a reasonable opportunity to earn a reasonable return on its invested capital used and useful in rendering service to the public over and above its reasonable and necessary operating expenses . . . ." <sup>62</sup> However, developer contributions are not included in a utility's invested capital. <sup>63</sup> Developer contributions are those assets paid for by the developer instead of the utility. Since the developer paid for those assets, they are not considered to be the invested capital of the utility because the utility made no investment in the asset. To the utility, the capital contributed by the developer was cost free. Therefore, developer contributions are not included in the invested capital calculation. <sup>64</sup>

#### 1. Evidentiary Record

DDU did not indicate in either version of its application for test year 2006 that a portion of its assets came from developer contributions. <sup>65</sup> However, DDU's witness testified that developer contributions should have been noted in the application. In discussing Table III.C. of DDU's August 2007 application, <sup>66</sup> Kevin Shea, DDU's vice president of accounting, stated:

Q Can you read that -- that section?

A "Developer's contribution, water."

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<sup>62</sup> TEX. WATER CODE ANN. § 13.183(a).

<sup>63</sup> 30 TAC § 291.31(c)(3)(A)(iv) & (v).

<sup>64</sup> DDU Exh. 25, pg. 13, Table IV.E, line [F]: Developer Contributions subtracted from the sum of Net Book Value, Working Cash Allowance, and Materials and Supplies.

<sup>65</sup> DDU Exh. 25, pg. 11, Table III.C. and pg. 13, Table IV.E., line [E]; and DDU Exh. 30, pg. 25, Table III.C. and pg. 27, Table IV.E, line [E].

<sup>66</sup> DDU Exh. 30, pg. 25.

Q Can you tell me, are there any developer contributions listed here?

A No, there's not.

Q Should there be any developer contributions listed?

A There probably should be, yes. Yeah.

Q In what amount?

A I guess I don't have that number in front of me. We -- we -- we, in accounting, we didn't -- back in '06, we didn't -- the way we did our accounting back in '06 is that we didn't really account for the developer contributions in the utility department, in the utility company.

Q But -- so there should be a number there?

A Well, we do contribute -- there are assets that are being contributed, yes, by the developer.<sup>67</sup>

Randy Gracy, DDU's president, was questioned about the developer contributions.

Mr. Gracy testified:

Q What is Double Diamond Utilities' policy on developer contributions to assets?

A The Double Diamond Utilities pays for 20 percent of the distribution and collection lines that go into the service territory of DDU.

Q And developers --

A And the developer --

Q -- contribute the remaining assets?

A Yes.<sup>68</sup>

Mr. Gracy went on to testify that the two applications were prepared by two different consultants and he did not know how the consultants arrived at their numbers.<sup>69</sup> He testified:

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<sup>67</sup> Tr., pg. 12, ln. 13 -- pg. 13, ln. 5.

<sup>68</sup> Tr. pg. 42, ln. 9-17.

[Mr. Gillespie, Jr.] reviewed our books with our accounting department, and this is what they came up with. Again, not being an accountant, I relied on my accounting staff and my consultants to prepare the application, and therefore, to the best of my knowledge, in the information they provided within the application was correct.<sup>70</sup>

Mr. Gillespie, Jr. did not testify regarding developer contributions or the issues raised by WBSR and the ED.

DDU also entered into evidence Exhibit 26, which is a list of asset additions from 2001 through June 2006. This list shows “developer cost” for several assets, including “CL Lake pump improvements,” “CL water system improvement,” “RT Phase 1 & 2 Water/Sewer,” and “RT water well & tank.”<sup>71</sup>

WBSR entered into evidence Exhibit 23, a document it had obtained in discovery from DDU. Exhibit 23 is a fax from Lynn Robertson, the former vice president of accounting for DDU to Charles Gillespie, III, the son of Charles Gillespie, Jr., DDU’s consultant on this application. The fax indicates that there were \$930,547 worth of developer contributions for the White Bluff and the Cliffs water systems.<sup>72</sup> This exhibit also shows that for the “WB” and “CL” water systems,<sup>73</sup> there were \$249,153.86 in developer contributions in aid of construction in 1998.<sup>74</sup>

WBSR also entered into evidence pages from DDU’s subsequent application for a rate change dated October 24, 2008.<sup>75</sup> In this subsequent, pending application, DDU

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<sup>69</sup> Tr. pg. 45, ln. 11-14.

<sup>70</sup> Tr. pg. 45, ln. 19-25.

<sup>71</sup> DDU Exh. 26.

<sup>72</sup> WBSR Exh. 23, pg. 2.

<sup>73</sup> The ALJ assumes that “WB” and “CL” references the White Bluff and the Cliffs systems, respectively.

<sup>74</sup> WBSR Exh. 23, pg. 3 and 4.

<sup>75</sup> WBSR Exh. 24.

listed \$1,904,489 in developer contributions.<sup>76</sup> The ED provided additional documents from DDU's October 2008 rate change application.<sup>77</sup> These documents show the installation dates for the developer contributed water assets that comprise the \$1,904,489 contribution.<sup>78</sup> The vast majority of these installation dates of these developer contributed assets preceded the 2006 test year that is the subject of this proceeding.

## 2. DDU's position

DDU offered no evidence on rebuttal regarding this issue. Furthermore, DDU made no argument in either its closing or its response to closings to address the issue of developer contributions.

## 3. WBSR's position

WBSR identified this lack of accounting for developer contributions as one of many inaccuracies in DDU's application.<sup>79</sup> WBSR introduced exhibits indicating that DDU should have shown developer contributions in both its August and December 2007 applications. According to WBSR, DDU failed to meet its burden of proof because of this and other omissions.

## 4. OPIC's position

OPIC pointed out that there is credible evidence in the record that \$1.9 million in developer contributions were included in the DDU's October 2008 application that are "noticeably" not included in this application.<sup>80</sup>

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<sup>76</sup> WBSR Exh. 24, pg. 2, Table III.C.

<sup>77</sup> ED Exh. 4.

<sup>78</sup> ED Exh. 4, "Att. 6" (noted in upper right hand corner of document).

<sup>79</sup> WBSR Closing, pg. 7.

<sup>80</sup> OPIC Closing, pg. 5.

**5. ED's position**

The ED recognized that DDU did not list any developer contributions in its August 2007 application. The ED states that DDU's subsequent October 2008 application shows \$1,904,489 in developer contributions with a majority of the assets installed before the filing of the August 2007 application that is the subject of this proceeding. According to the ED, "[t]his means that in this case, DDU has possibly included items in its rate base that were paid for with developer contributions."<sup>81</sup>

**6. The ALJ's analysis**

DDU had ample opportunity to clarify this issue in its rebuttal case or in its closing arguments and responses. There is credible evidence in the record, including testimony from DDU's own witness, that some portion of the amount DDU claims as invested capital came from developer contributions, which should be shown in the December 2007 application. The October 2008 rate change application lists \$1.9 million in developer contributions with installation dates for assets dating back to 1990.<sup>82</sup> Some of the assets are listed on both the developer contribution list from the October 2008 application and in DDU's December 2007 application. The record does not show whether the amounts listed in DDU's December 2007 application depreciation schedule include or exclude the developer contributions shown in the October 2008 application.

DDU is claiming a total invested capital of \$1,840,362 in its December 2007 application.<sup>83</sup> The ALJ doubts the accuracy of these representations given that a year later, DDU filed another rate change application showing \$1.9 million in developer contributions for many assets that were installed prior to the 2006 test year. Given the potential magnitude of the discrepancy and the lack of evidence to the contrary, the ALJ is of the opinion that the accuracy

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<sup>81</sup> ED Closing, pg. 14.

<sup>82</sup> ED Exh. 4, "Att. 6."

<sup>83</sup> DDU Exh. 25, pg. 13.

of DDU's calculations of its invested capital is suspect. Invested capital is a major component in setting just and reasonable rates. The ALJ cannot conclude that the rates DDU has requested are just and reasonable and DDU has failed to meet its burden of proof in this regard. On this basis alone, the ALJ would recommend that DDU's application be denied.

**D. General Concerns with DDU's Application**

In addition to the major issues already discussed, the ALJ has several concerns with DDU's application and the presentation of its case. A major concern is with the accounting documents provided by DDU in its exhibits. DDU's accounting methods do not separate expenses and assets for the water system from those attributable to the companion wastewater system. When asked if the detailed trial balances included costs for both the water and wastewater systems, DDU's Vice President testified that "Yeah. We – the way we account for everything is that the – each – each development has their own department number,<sup>84</sup> so everybody has their unique department number. That's how we account for all the expenses and revenues and things like that, is by the department. . . ."<sup>85</sup> Therefore, DDU's accounting documents entered into evidence in its water rate case contain entries for both the water and wastewater systems. This approach made it difficult to use DDU's financial exhibits to support its application to change its water rates.

Furthermore, DDU did not show how exhibits 1 through 26 correspond to the entries in its applications. While Mr. Shea sponsored the financial exhibits, he did not match his exhibits to the entries in the application. As will be discussed below, few of the amounts in the exhibits matched the entries in the application. Also, neither Mr. Gillespie, Jr. nor Mr. Gracy attempted to reconcile the financial documents and invoices in the two 5-inch binders containing the exhibits with either of the two applications.

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<sup>84</sup> The Retreat development has department number 6090; the Cliffs, 8090; and White Bluff, 9090. DDU Exh. A., pg. 1, ln. 20-29, pg. 2, ln. 27-28.

<sup>85</sup> Tr., pg. 18, ln. 15-25.

**SOAH DOCKET NO. 473-17-0119.WS  
PUC DOCKET NO. 46245**

**DIRECT TESTIMONY AND WORKPAPERS  
OF NELISA HEDDIN**

**WBRG-1K  
Excerpts from Direct Testimony of Chris Ekrut  
SOAH Docket No. 582-09-4288**

**SOAH DOCKET NO. 582-09-4288**

**TCEQ DOCKET NO. 2009-0505-UCR**

**APPLICATION OF DOUBLE  
DIAMOND UTILITIES COMPANY,  
INC. TO CHANGE WATER RATE  
TARIFF FOR SERVICE IN HILL, PALO  
PINTO, AND JOHNSON COUNTIES**

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**BEFORE THE STATE OFFICE  
  
OF  
  
ADMINISTRATIVE HEARINGS**

**PREFILED DIRECT TESTIMONY AND EXHIBITS**

**OF**

**CHRIS EKRUT**

**ON BEHALF OF**

**DOUBLE DIAMOND UTILITIES COMPANY, INC.**

**MARCH 1, 2010**



1 **I. INTRODUCTION AND QUALIFICATIONS**

2 **Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS.**

3 A. My name is Chris Ekrut. I am a Manager with J. Stowe & Co., Inc. My business address  
4 is 1300 E. Lookout Dr., Ste. 100, Richardson, Texas 75082.

5 **Q. PLEASE OUTLINE YOUR EDUCATIONAL AND PROFESSIONAL**  
6 **BACKGROUND.**

7 A. I received my undergraduate degree, a Bachelor of Arts with a major in Public  
8 Administration, from West Texas A&M University in 2003, graduating with honors. I  
9 then received a Master's in Public Administration from the University of North Texas in  
10 2005, again graduating with honors. While pursuing my Master's Degree, I served as an  
11 intern with R.W. Beck, Inc. ("R.W. Beck"), and officially joined the Company in 2005 as  
12 a Consulting Analyst upon completion of my degree. I left R.W. Beck in April 2008 to  
13 join J. Stowe & Co., LLC. ("J. Stowe & Co.") as a Senior Consultant, and was promoted  
14 to Manager in December 2009. In 2009, I also received my certification as an Associate  
15 in Project Management by the Project Management Institute. My professional resume is  
16 herein included as Exhibit DDU-16.

17 **Q. GENERALLY, WHAT DOES YOUR WORK WITH J. STOWE & CO. ENTAIL?**

18 A. I have provided a broad range of consulting services to the utility industry, including, but  
19 not limited to:

- 20 • Cost of service and rate design studies  
21 • Litigation support  
22 • System valuations  
23 • Operational and organization studies  
24 • Socioeconomic impact analysis

1 Evaluation alters the allocation of expenses between the water and sewer utility, further  
2 impacting O&M expenses and the working cash allowance.

3 **Q. CAN YOU PLEASE QUANTIFY THE IMPACT TO WORKING CASH**  
4 **ALLOWANCE?**

5 A. Table 9 shows the reduction in operations and maintenance expense and the resulting  
6 reduction in the Utility's requested working cash allowance:

| Table 9 –Impact to Working Cash Allowance from Asset Evaluation |                    |                      |              |
|---|--------------------|----------------------|--------------|
|   | <u>Groundwater</u> | <u>Surface Water</u> | <u>Total</u> |
| Application level of O&M Expense                                | \$ 517,955         | \$472,797            | \$990,751    |
| Working Cash Allowance (1/8 <sup>th</sup> O&M)                  | \$64,744           | \$59,100             | \$123,844    |
| Adjusted level of O&M Expense<br>(based on Asset Evaluation)    | \$ 414,046         | \$ 370,099           | \$ 784,145   |
| Working Cash Allowance (1/8 <sup>th</sup> O&M)                  | \$ 51,756          | \$ 46,262            | \$ 98,018    |
| Reduction in O&M Expense  | \$ (103,909)       | \$ (102,697)         | \$ (206,606) |
| Reduction in Working Cash Allowance                             | \$ (12,988)        | \$ (12,838)          | \$ (25,826)  |

7

8 **Q. PLEASE EXPLAIN HOW THE LEVEL OF DEVELOPER CONTRIBUTIONS**  
9 **IDENTIFIED WITHIN THE APPLICATION IS IMPACTED BY THE ASSET**  
10 **EVALUATION PERFORMED BY DR. HARKINS?**

11 A. It is my understanding that it has been the practice of the Utility's Parent Company to pay  
12 for 80% of the initial assets, including all distribution mains and lines, during the  
13 construction of a water and sewer system. The remaining 20% was then paid by the  
14 Utility. Beyond initial construction, all assets and maintenance are funded 100% by the  
15 Utility. To determine the appropriate level of these contributions by the parent company,

1 Mr. Gracy has identified those assets, subject to the 80% payment by the parent company  
 2 from the asset listing produced by Dr. Harkins. This listing is presented herein as  
 3 Schedule CDE-7 (Exhibit DDU-25).

4 **Q. CAN YOU PLEASE QUANTIFY THE IMPACT OF THIS ADJUSTMENT TO**  
 5 **DEVELOPER CONTRIBUTIONS?**

6 A. Table 10 illustrates the total Parent Company contributed assets contained within the  
 7 application as compared to the amount identified by Mr. Gracy resulting from the asset  
 8 evaluation.

| Table 10 – Impact of Asset Evaluation of Developer Contributed Capital |                    |                      |              |
|--|--------------------|----------------------|--------------|
|  | <u>Groundwater</u> | <u>Surface Water</u> | <u>Total</u> |
| Application Value  | \$ 1,699,742       | \$ 204,747           | \$ 1,904,489 |
| Adjusted Values<br>(as identified by Mr. Gracy)                        | 2,222,479          | 329,195              | 2,551,674    |
| Variance   | \$ 522,737         | \$ 124,448           | \$ 647,185   |

9  
 10 **Q. PLEASE SUMMARIZE THE UTILITY’S LEVEL OF INVESTED CAPITAL**  
 11 **BASED ON THE RESULTS OF THE ASSET EVALUATION?**

12 A. Table 11 below presents the requested level of invested capital in accordance with the  
 13 results of the Asset Evaluation.

| Table 11 –Asset Evaluation Level of Investor Supplied Capital |                    |                      |              |
|---|--------------------|----------------------|--------------|
|   | <u>Groundwater</u> | <u>Surface Water</u> | <u>Total</u> |
| Net Book Value of Assets                                      | \$ 3,848,429       | \$ 903,947           | \$ 4,752,376 |
| Working Cash Allowance  | 51,756             | 46,262               | 98,018       |
| Less: Developer Contributions                                 | (2,222,479)        | (329,195)            | (2,551,674)  |
| Total Investor Supplied Capital                               | \$ 1,677,709       | \$ 621,014           | \$2,298,720  |

**SOAH DOCKET NO. 473-17-0119.WS  
PUC DOCKET NO. 46245**

**DIRECT TESTIMONY AND WORKPAPERS  
OF NELISA HEDDIN**

**WBRG-1L  
Warranty Deed from Double Diamond, Inc.,  
to White Bluff Property Owners Association  
(December 20, 1996)**

009107

WARRANTY DEED

THE STATE OF TEXAS

§  
§  
§

White Bluff

COUNTY OF HILL

KNOW ALL MEN BY THESE PRESENTS:

That DOUBLE DIAMOND, INC., a Texas corporation maintaining its principal office and place of business at 3500 Maple Avenue, Suite 1400, Dallas, Texas 75219 (hereafter referred to as the "Grantor") for and in consideration of the sum of Ten and more Dollars and other valuable consideration, receipt of which is acknowledged, to it in hand paid by White Bluff Property Owners Association, Inc. of 3500 Maple Avenue, Suite 1400, Dallas, Texas 75219, (hereinafter referred to as the "Grantee," whether one or more) has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto the said Grantee, the property described in Exhibit "A" attached hereto and made a part hereof for all purposes. Grantor specifically reserves and excepts from this conveyance all oil, gas and other minerals and mineral rights in or under the above-described property, and this conveyance is made subject to all prior easements, restrictions, covenants, conditions, reservations and rights-of-way of record.

To Have and To Hold the property described in Exhibit "A," together with all and singular the rights and appurtenances thereto in any wise belonging unto the said Grantee, Grantee's heirs, successors and assigns forever, and Grantor does hereby bind itself, its successors and assigns, to warrant and forever defend, all and singular, the said property unto the said Grantee, Grantee's heirs, successors and assigns, against every person whomsoever lawfully claiming, or to claim the same or any part thereof.

Witness the hand of Grantor this 20th day of December, 1995 .

ATTEST:

DOUBLE DIAMOND, INC., a Texas corporation

*[Signature]*  
Assistant Secretary

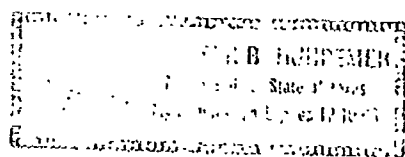
By *[Signature]*  
Beverly Selman, Exec. Vice President

THE STATE OF TEXAS

§  
§  
§

COUNTY OF DALLAS

This instrument was acknowledged before me on this 20th day of December, 1995, by BEVERLY SELMAN, Exec. Vice President of Double Diamond, Inc., a Texas corporation, on behalf of said corporation.



*[Signature]*  
Notary Public in and for the State of Texas

RETURN RECORDED DOCUMENT TO:  
DOUBLE DIAMOND, INC.  
3500 MAPLE AVENUE, SUITE 1400  
DALLAS, TEXAS 75219  
WBRG000128

EXHIBIT "A"

WB - White Bluff Subdivision, as described in the corrected plat thereof, recorded in Slide A-130 of the Plat Records of Hill County, Texas;  
 WB Three - White Bluff Three Subdivision, as described in the plat, recorded in Slide 131A of the Plat Records of Hill County, Texas;  
 WB Four - White Bluff Four Subdivision, as described in the plat thereof, recorded in Slide 131AB and 132 A of the Plat Records of Hill County, Texas.  
 WB Eight - White Bluff Eight Subdivision, as described in the plat recorded in Slide 135A of the Plat Records of Hill County, Texas.  
 WB Twelve - White Bluff Twelve Subdivision, as described in the corrected plat recorded in Slide 137AB of the Plat Records of Hill County, Texas.  
 WB Seventeen - White Bluff Seventeen Subdivision, as described in the plat recorded in Slide 140AB of the Plat Records of Hill County, Texas.  
 WB Twenty - White Bluff Twenty Subdivision, as described in the plat recorded in Slide A-142 of the Plat Records of Hill County, Texas.

| <u>LOT/TRACT</u>         | <u>SUBDIVISION</u> |
|--------------------------|--------------------|
| Tract 1                  | WB Three           |
| Tract 2                  | WB Four            |
| Tract 3                  | WB Four            |
| Tract 4                  | WB Four            |
| Lots 33, 34, 35, & 36    | WB Eight           |
| Lots 172, 173, 174 & 175 | WB Eight           |
| Lots 200 & 201           | WB Twelve          |
| Lots 36, 37 & 38         | WB Seventeen       |
| Lots 18, 19, & 20        | WB Twenty          |

Two Tracts of land designated as "Greenbelt" on the Plat of the White Bluff Subdivision containing 3.113± acres and 4.5± acres respectively.

009107

FILED  
 AT 1:00 O'CLOCK P.M.  
 ON THE 28 DAY OF Dec.  
 A.D., 19 95.

STATE OF TEXAS  
 COUNTY OF HILL  
 I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the Official Public Records of Hill County, Texas.



*Ruth Pelham*

County Clerk, Hill County, Texas

BY \_\_\_\_\_ DEPUTY

Ruth Pelham  
 COUNTY CLERK, HILL CO TEXAS  
 BY *P. Hamacher*  
 DEPUTY

RECORDED \_\_\_\_\_

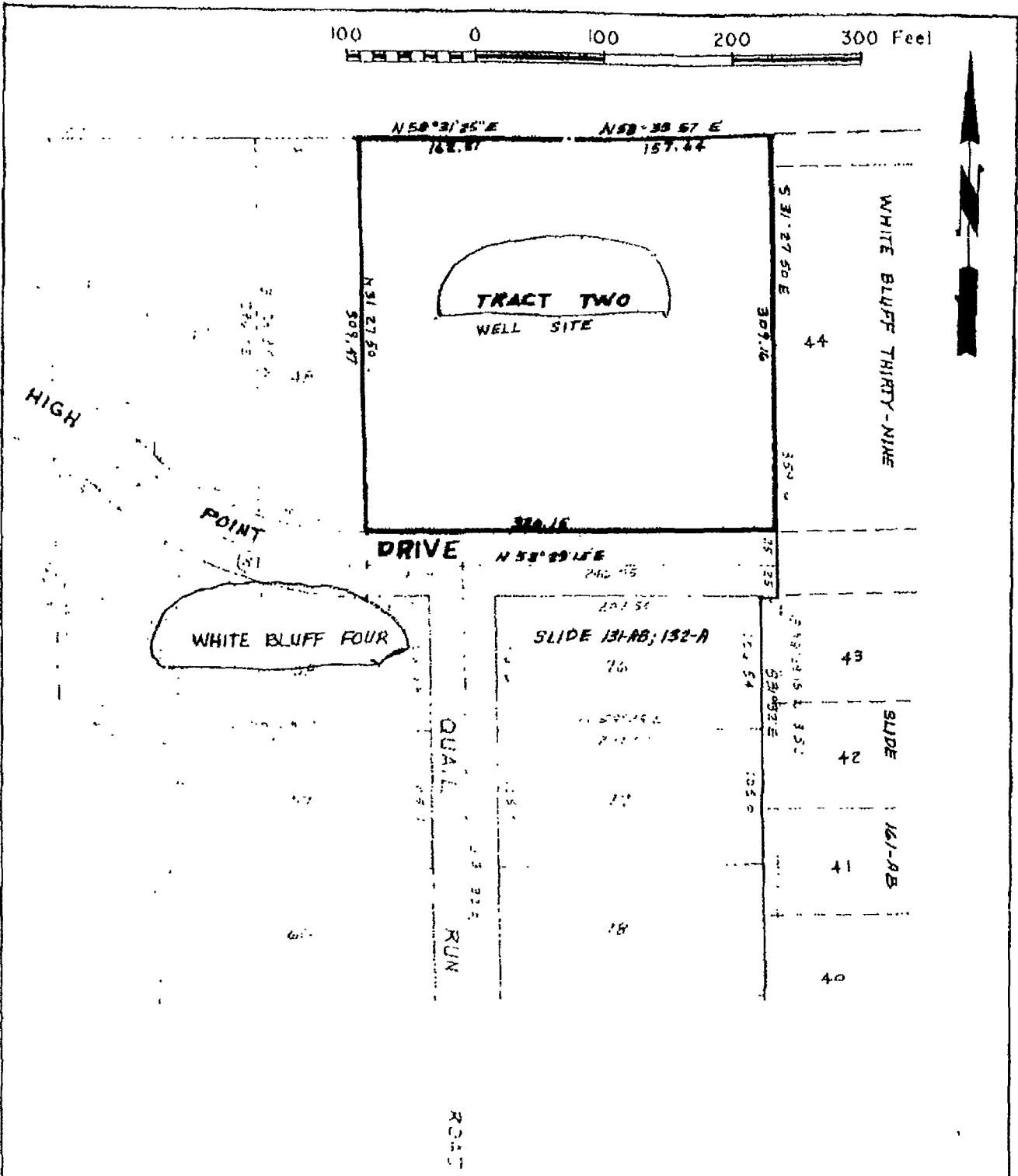
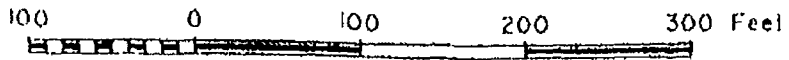


EXHIBIT "A"  
WELL SITE

TRACT A, WHITE BLUFF FOUR SUBDIVISION  
AS RECORDED IN SLIDE 131-AB AND 132-A,  
PLAT RECORDS OF HILL COUNTY, TEXAS

**SOAH DOCKET NO. 473-17-0119.WS  
PUC DOCKET NO. 46245**

**DIRECT TESTIMONY AND WORKPAPERS  
OF NELISA HEDDIN**

**EXHIBIT WBRG-1M**  
**Workpapers**



**WBRG NO. 1-15** In the 2008 Application, Double Diamond divided original cost between the developer and the utility at a ration [sic] of 80%-developer, 20%-utility for certain items of rate base. Attachment C is an Exhibit from SOAH Docket No. 582-09-4288 showing the rate base items relating to White Bluff water assets. Please explain the basis for the 80%-20% split between developer and utility and provide documentation that corresponding entries were made in the financial records of both the developer and the utility.

**RESPONSE:** The basis for the 80/20 separation is discussed in Mr. Randy Gracy's prefiled testimony in the referenced docket. No documentation exists that corresponding entries were made in the financial records of the developer and the utility.

Prepared and sponsored by Jay Joyce.

**WBRG NO. 1-17** Please provide a full listing of all assets claimed by Double Diamond on line 2 of Schedule III-2 (WHITE BLUFF (Total)) in the amount of \$6,245,596.

**RESPONSE:** The corrected amount is \$6,639,292 in total original cost assets, which is the sum of the corrected water assets of \$3,791,956 shown on line 2 of Corrected Schedule III-2 of WHITE BLUFF (Water) and the sewer assets of \$2,847,336 on line 2 of Corrected Schedule III-2 of WHITE BLUFF (Sewer). The corrected listings of the water and sewer assets may be found in the Errata Work Papers. See bates DDU16-011266, DDU16-011277, and DDU16-011331 – DDU16-011339 filed in support of the application.

Prepared and sponsored by Jay Joyce.

**WBRG NO. 1-18** Please provide invoices for all assets identified in response to WBRG NO. 1-17.

**RESPONSE:** Responsive documents have been produced. See bates DDU008999 – DDU009123, DDU16-009264 – DDU16-010453, DDU16-010994 – DDU16-011030 filed in support of the application.

Prepared and sponsored by Victoria Harkins.

**WBRG NO. 1-19** Please provide proof of payment (e.g Canceled checks) relating to the assets identified in response to WBRG No. 1-17.

**RESPONSE:** Canceled checks are not available. See invoices produced in response to WBRG 1-18.

Prepared by Christie Rotramel and Victoria Harkins.

Sponsored by Tim Grout.

**WBRG NO. 1-20** Please provide annual income statements for Double Diamond for 2013, 2014, and 2015.

**RESPONSE:** Responsive documents will be produced. See bates DDU004703 – DDU004718.

Prepared by Christie Rotramel.

Sponsored by Tim Grout.

**WBRG NO. 1-21** Please provide annual income statements for Double Diamond, Inc., for 2013, 2014, and 2015.

**RESPONSE:** Responsive documents were previously produced as Confidential Documents pursuant to the terms of the Protective Order. See bates DDU004719 – DDU004734.

Prepared by Christie Rotramel.

Sponsored by Tim Grout.

**WBRG NO. 2-16** Please provide an accounting of water tap fees received, by year, since inception, from White Bluff customers.

**RESPONSE:** **Responsive documents will be produced.**

**Prepared by:** **Christie Rotramel**

**Sponsored by:** **Tim Grout**

**WBRG NO. 2-17** Please provide an accounting of wastewater tap fees received, by year, since inception, from White Bluff customers.

**RESPONSE:** **Responsive documents will be produced.**

**Prepared by:** **Christie Rotramel**

**Sponsored by:** **Tim Grout**

**WBRG NO. 2-18** Admit or deny: Double Diamond is providing service within White Bluff for which it is not receiving monetary compensation. If you admit, please identify where such service is being provided, and the basis for providing service without compensation.

**RESPONSE:** **Deny**

**Prepared by:** **Christie Rotramel**

**Sponsored by:** **Randy Gracy**

**WBRG NO. 2-19** DDU003586 provides a listing of company-wide notes payable and interest rates. There is one note for \$3,000,000 that lists collateral as "utility assets." Which system's assets were pledged as collateral for the loan?

**RESPONSE:** **Water and wastewater utility assets located within the White Bluff Resort.**

**Prepared by:** **Christie Rotramel**

**Sponsored by:** **Randy Gracy**

**WBRG NO. 3-4** Referencing Double Diamond's response to WBRG 2-19, please provide an itemized accounting of the spending of funds obtained through this loan.

**RESPONSE:** The requested information does not exist. This is akin to asking for an itemized list of the components of a house paid for with mortgage proceeds and another itemized list of the components of the house paid for with from the down payment. The request doesn't make sense.

The characteristics of the referenced loan were used in the applications to establish the reasonable cost of debt incorporated into the capital structure to produce an overall cost of capital for DDU which is applied to rate base to yield a reasonable return.

Prepared by: Jay Joyce

Sponsored by: Jay Joyce

**WBRG NO. 3-5** Referring to Double Diamond's response to WBRG 2-24, please provide an itemized detail as to which entities would install the utility infrastructure referenced in this response.

**RESPONSE:** Utility infrastructure has been installed by Double Diamond Inc (DDI), Double Diamond Properties Construction (DDPC) or Double Diamond Utilities (DDU) at various times. Before 1996, most all of infrastructure was constructed and paid for by DDI. DDPC and DDU were created in December 1996. In 1997, DDPC began paying for most of the infrastructure, and DDU paid for a few items. Payment for utility infrastructure is identified and itemized in the invoices whose bates number are referenced on the asset list previously produced. As of the 2007-2008 rate case before the Texas Commission on Environmental Quality, most of the initial utility infrastructure was completed, and DDU begin paying for all utility assets and operations. The same contractors and employees worked for each entity that paid for the infrastructure.

Prepared by: Christie Rotramel

Sponsored by: Randy Gracy

**WBRG NO. 3-6** Please provide documents responsive to WBRG 2-6 in native format (excel or similar).

**RESPONSE:** Bates DDU16-015228 – DDU16-015231 will be produced in native format.

**Prepared by:** Christie Rotramel

**Sponsored by:** Tim Grout

**WBRG NO. 3-7** Admit or deny. Attachment A is a true and accurate copy of a Warranty Deed conveying the tracts listed on Exhibit "A" from Double Diamond, Inc., to White Bluff Property Owners Association, Inc dated December 20, 1995.

**RESPONSE:** Admit

**Prepared by:** Christie Rotramel

**Sponsored by:** Randy Gracy

**WBRG NO. 3-8** Admit or deny. The list of tracts included in Exhibit "A" in Attachment A includes Tract 2 in White Bluff Four Subdivision ("WB4 TR2").

**RESPONSE:** Admit

**Prepared by:** Christie Rotramel

**Sponsored by:** Randy Gracy

**WBRG NO. 3-9** Admit or deny. The original cost of the tract, WB4 TR2, is included in Double Diamond's rate base as "land," as shown on DDU012745.

**RESPONSE:** Admit

**Prepared by:** Victoria Harkins

**Sponsored by:** Victoria Harkins

**WBRG NO. 3-10** If you contend that Double Diamond owns WB4 TR2, please explain the basis for your contention.

**RESPONSE:** Please see the tax records previously produced as DDU16-011011-011015. DDU is the owner.

**Prepared by:** Victoria Harkins

**Sponsored by:** Victoria Harkins

**WBRG NO. 3-11** Please identify all improvements on WB4 TR2.

**RESPONSE:** Please see the attached aerial photo.

**Prepared by:** Victoria Harkins

**Sponsored by:** Victoria Harkins

**WBRG NO. 3-12** Admit or deny. Attachment B is a true and correct copy of a form Real Estate Sales Contract used to sell property in the White Bluff subdivision to purchasers.

**RESPONSE:** Admit

**Prepared by:** Christie Rotramel

**Sponsored by:** Randy Gracy

**WBRG NO. 3-13** Please provide copies of all communications with the Texas Commission on Environmental Quality that occurred during the test year for the White Bluff systems.

**RESPONSE:** Responsive documents will be produced.

**Prepared by:** Christie Rotramel

**Sponsored by:** Randy Gracy



W-4

COST TRENDS OF WATER UTILITY CONSTRUCTION  
SOUTH CENTRAL REGION (1973=100)

| L<br>i<br>n<br>e | CONSTRUCTION AND EQUIPMENT       | N<br>A<br>R<br>U<br>C | COST INDEX NUMBERS |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|----------------------------------|-----------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                                  |                       | 1<br>9<br>8<br>2   | 1<br>9<br>8<br>3 | 1<br>9<br>8<br>4 | 1<br>9<br>8<br>5 | 1<br>9<br>8<br>6 | 1<br>9<br>8<br>7 | 1<br>9<br>8<br>8 | 1<br>9<br>8<br>9 | 1<br>9<br>9<br>0 | 1<br>9<br>9<br>1 | 1<br>9<br>9<br>2 | 1<br>9<br>9<br>3 | 1<br>9<br>9<br>4 | 1<br>9<br>9<br>5 |
| 1                | Source of Supply Plant           |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2                | Collecting & Impounding Res.     | 305                   | 224                | 229              | 233              | 233              | 233              | 232              | 234              | 238              | 237              | 230              | 234              | 243              | 255              | 266              |
| 3                |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4                |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5                |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 6                |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7                | Pumping Plant                    |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 8                | Structures & Improvements        | 304                   | 217                | 225              | 230              | 229              | 229              | 231              | 233              | 240              | 245              | 239              | 241              | 251              | 264              | 271              |
| 9                | Electric Pumping Equipment       | 311                   | 260                | 271              | 277              | 282              | 284              | 299              | 311              | 330              | 349              | 355              | 368              | 386              | 428              | 442              |
| 10               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 12               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 14               | Water Treatment Plant            |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15               | Structures & Improvements        | 304                   | 217                | 225              | 230              | 229              | 229              | 231              | 233              | 240              | 245              | 239              | 241              | 251              | 264              | 271              |
| 16               | Large Treatment Plant Equip.     | 320                   | 242                | 257              | 260              | 263              | 266              | 272              | 277              | 288              | 294              | 297              | 304              | 309              | 311              | 318              |
| 17               | Small Treatment Plant Equip.     | 320                   | 258                | 274              | 277              | 281              | 284              | 289              | 296              | 306              | 312              | 311              | 318              | 323              | 326              | 330              |
| 18               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 20               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 22               | Transmission Plant               |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23               | Steel Reservoirs                 | 330                   | 210                | 182              | 184              | 181              | 184              | 196              | 220              | 216              | 229              | 253              | 261              | 248              | 246              | 250              |
| 24               | Elevated Steel Tanks             | 330                   | 244                | 197              | 200              | 198              | 207              | 219              | 260              | 268              | 278              | 285              | 277              | 249              | 242              | 252              |
| 25               | Concrete Reservoirs              | 330                   | -                  | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                |
| 26               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27               | Cast Iron Mains                  | 331                   | 227                | 240              | 239              | 246              | 241              | 246              | 254              | 264              | 267              | 270              | 272              | 280              | 289              | 288              |
| 28               | Steel Mains                      | 331                   | 235                | 241              | 246              | 244              | 238              | 244              | 254              | 268              | 274              | 279              | 282              | 288              | 302              | 309              |
| 29               | Concrete Cylinder Mains          | 331                   | 222                | 230              | 232              | 242              | 246              | 247              | 258              | 266              | 272              | 280              | 284              | 290              | 296              | 301              |
| 30               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 31               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 32               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 33               | Distribution Plant               |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 34               | Mains-Average All Types          | 331                   | 238                | 247              | 247              | 250              | 246              | 249              | 259              | 269              | 270              | 272              | 271              | 276              | 281              | 282              |
| 35               | Cast Iron Mains                  | 331                   | 227                | 248              | 249              | 256              | 249              | 254              | 264              | 275              | 277              | 279              | 281              | 286              | 294              | 291              |
| 36               | Cement-Asbestos Mains            | 331                   | 246                | 262              | 266              | 261              | 253              | 249              | 257              | 272              | 269              | 264              | 253              | 263              | 265              | 276              |
| 37               | Steel Mains                      | 331                   | 250                | 242              | 238              | 237              | 238              | 242              | 254              | 260              | 262              | 264              | 265              | 268              | 267              | 271              |
| 38               | PVC Mains                        | 331                   | 136                | 151              | 146              | 146              | 144              | 152              | 191              | 209              | 199              | 184              | 165              | 174              | 170              | 183              |
| 39               | Services Installed               | 333                   | 225                | 234              | 234              | 231              | 230              | 233              | 231              | 225              | 232              | 237              | 251              | 261              | 268              | 284              |
| 40               | Meters                           | 334                   | 128                | 141              | 148              | 135              | 135              | 137              | 140              | 150              | 159              | 162              | 196              | 195              | 175              | 200              |
| 41               | Meter Installations              | 334                   | 222                | 238              | 244              | 243              | 247              | 251              | 256              | 258              | 264              | 273              | 282              | 290              | 297              | 308              |
| 42               | Hydrants Installed               | 335                   | 260                | 280              | 281              | 289              | 298              | 308              | 320              | 340              | 354              | 358              | 360              | 362              | 364              | 371              |
| 43               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 44               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 45               | Miscellaneous Items              |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 46               | Flocculating Equipment-Installed |                       | 482                | 521              | 527              | 557              | 573              | 588              | 586              | 585              | 566              | 520              | 528              | 543              | 546              | 550              |
| 47               | Clarifier Equipment-Installed    |                       | 369                | 402              | 406              | 432              | 439              | 441              | 442              | 443              | 428              | 397              | 412              | 432              | 464              | 485              |
| 48               | Filter Gallery Piping-Installed  |                       | 216                | 232              | 230              | 231              | 229              | 234              | 240              | 248              | 249              | 251              | 254              | 258              | 264              | 263              |
| 49               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 50               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 51               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 52               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 53               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 54               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 55               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 56               |                                  |                       |                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

DDU008197



W-4

COST TRENDS OF WATER UTILITY CONSTRUCTION  
SOUTH CENTRAL REGION (1973=100)

| Line | CONSTRUCTION AND EQUIPMENT       | N<br>A<br>R<br>R<br>U<br>C | COST INDEX NUMBERS |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
|------|----------------------------------|----------------------------|--------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|
|      |                                  |                            | 1998               |                  | 1999      |           | 2000      |           | 2001      |           | 2002      |           | 2003      |           |     |     |     |
|      |                                  |                            | 1<br>9<br>9<br>6   | 1<br>9<br>9<br>7 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 |     |     |     |
| 1    | Source of Supply Plant           |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 2    | Collecting & Impounding Res.     | 305                        | 275                | 281              | 281       | 284       | 284       | 288       | 293       | 296       | 300       | 306       | 308       | 311       | 311 | 311 | 311 |
| 3    |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 4    |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 5    |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 6    |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 7    | Pumping Plant                    |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 8    | Structures & Improvements        | 304                        | 277                | 282              | 283       | 285       | 292       | 291       | 296       | 314       | 320       | 323       | 325       | 330       | 333 | 328 | 328 |
| 9    | Electric Pumping Equipment       | 311                        | 450                | 473              | 485       | 486       | 499       | 499       | 523       | 532       | 531       | 531       | 516       | 533       | 534 | 546 | 546 |
| 10   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 11   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 12   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 13   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 14   | Water Treatment Plant            |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 15   | Structures & Improvements        | 304                        | 277                | 282              | 283       | 285       | 292       | 291       | 296       | 314       | 320       | 323       | 325       | 330       | 333 | 328 | 328 |
| 16   | Large Treatment Plant Equip.     | 320                        | 327                | 339              | 344       | 347       | 356       | 359       | 364       | 366       | 373       | 380       | 387       | 394       | 396 | 397 | 397 |
| 17   | Small Treatment Plant Equip.     | 320                        | 338                | 351              | 358       | 360       | 368       | 370       | 376       | 382       | 389       | 395       | 400       | 406       | 408 | 409 | 409 |
| 18   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 19   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 20   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 21   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 22   | Transmission Plant               |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 23   | Steel Reservoirs                 | 330                        | 251                | 255              | 268       | 268       | 268       | 268       | 268       | 270       | 270       | 275       | 275       | 275       | 275 | 275 | 275 |
| 24   | Elevated Steel Tanks             | 330                        | 268                | 273              | 279       | 283       | 285       | 288       | 292       | 300       | 305       | 314       | 429       | 429       | 429 | 429 | 429 |
| 25   | Concrete Reservoirs              | 330                        | -                  | -                | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -   | -   | -   |
| 26   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 27   | Cast Iron Mains                  | 331                        | 292                | 301              | 302       | 302       | 305       | 307       | 310       | 333       | 337       | 342       | 347       | 368       | 370 | 361 | 361 |
| 28   | Steel Mains                      | 331                        | 314                | 323              | 324       | 325       | 327       | 331       | 342       | 365       | 368       | 372       | 375       | 382       | 386 | 378 | 378 |
| 29   | Concrete Cylinder Mains          | 331                        | 308                | 315              | 318       | 320       | 323       | 328       | 331       | 355       | 382       | 389       | 394       | 402       | 405 | 396 | 396 |
| 30   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 31   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 32   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 33   | Distribution Plant               |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 34   | Mains-Average All Types          | 331                        | 286                | 293              | 294       | 296       | 308       | 300       | 301       | 314       | 320       | 323       | 329       | 340       | 342 | 338 | 338 |
| 35   | Cast Iron Mains                  | 331                        | 295                | 304              | 305       | 306       | 309       | 311       | 314       | 327       | 331       | 336       | 342       | 359       | 360 | 356 | 356 |
| 36   | Cement-Asbestos Mains            | 331                        | 283                | 289              | 289       | 290       | 290       | 293       | 299       | 314       | 325       | 326       | 334       | 351       | 352 | 345 | 345 |
| 37   | Steel Mains                      | 331                        | 276                | 280              | 281       | 283       | 311       | 287       | 284       | 297       | 303       | 306       | 311       | 311       | 313 | 311 | 311 |
| 38   | PVC Mains                        | 331                        | 189                | 192              | 191       | 192       | 191       | 194       | 201       | 201       | 215       | 213       | 220       | 227       | 227 | 222 | 222 |
| 39   | Services Installed               | 333                        | 286                | 275              | 268       | 276       | 282       | 269       | 273       | 275       | 279       | 287       | 290       | 293       | 294 | 322 | 322 |
| 40   | Meters                           | 334                        | 207                | 197              | 197       | 197       | 197       | 197       | 200       | 206       | 206       | 206       | 207       | 207       | 207 | 207 | 207 |
| 41   | Meter Installations              | 334                        | 314                | 314              | 315       | 318       | 323       | 321       | 326       | 328       | 336       | 339       | 344       | 348       | 351 | 362 | 362 |
| 42   | Hydrants Installed               | 335                        | 389                | 450              | 464       | 465       | 480       | 482       | 495       | 496       | 512       | 525       | 531       | 537       | 539 | 538 | 538 |
| 43   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 44   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 45   | Miscellaneous Items              |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 46   | Flocculating Equipment-Installed | 561                        | 583                | 594              | 595       | 618       | 619       | 621       | 622       | 640       | 641       | 648       | 655       | 657       | 658 | 658 | 658 |
| 47   | Clarifier Equipment-Installed    | 509                        | 529                | 535              | 536       | 537       | 538       | 549       | 551       | 557       | 558       | 566       | 572       | 579       | 580 | 580 | 580 |
| 48   | Filter Gallery Piping-Installed  | 265                        | 272                | 275              | 276       | 283       | 284       | 289       | 289       | 297       | 302       | 311       | 325       | 328       | 326 | 326 | 326 |
| 49   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 50   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 51   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 52   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 53   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 54   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 55   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |
| 56   |                                  |                            |                    |                  |           |           |           |           |           |           |           |           |           |           |     |     |     |

DDU008198

**COST TRENDS OF WATER UTILITY CONSTRUCTION  
SOUTH CENTRAL REGION (1973=100)**

| L<br>i<br>n<br>e | CONSTRUCTION AND EQUIPMENT       | N<br>A<br>R<br>U<br>C | COST INDEX NUMBERS |           |           |           |           |           |           |           |           |           |           |           |           |           |
|------------------|----------------------------------|-----------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  |                                  |                       | 2004               |           | 2005      |           | 2006      |           | 2007      |           | 2008      |           | 2009      |           | 2010      |           |
|                  |                                  |                       | Jan.<br>1          | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 | Jan.<br>1 | Jul.<br>1 |
| 1                | Source of Supply Plant           |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 2                | Collecting & Impounding Res.     | 305                   | 331                | 338       | 347       | 355       | 356       | 363       | 367       | 381       | 383       | 392       | 389       |           |           |           |
| 3                |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 4                |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 5                |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 6                |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 7                | Pumping Plant                    |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 8                | Structures & Improvements        | 304                   | 341                | 356       | 375       | 378       | 382       | 391       | 401       | 413       | 424       | 453       | 457       |           |           |           |
| 9                | Electric Pumping Equipment       | 311                   | 547                | 569       | 604       | 611       | 620       | 619       | 639       | 628       | 640       | 666       | 679       |           |           |           |
| 10               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 11               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 12               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 13               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 14               | Water Treatment Plant            |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 15               | Structures & Improvements        | 304                   | 341                | 356       | 375       | 378       | 382       | 391       | 401       | 413       | 424       | 453       | 457       |           |           |           |
| 16               | Large Treatment Plant Equip.     | 320                   | 405                | 408       | 422       | 423       | 433       | 434       | 443       | 460       | 484       | 503       | 531       |           |           |           |
| 17               | Small Treatment Plant Equip.     | 320                   | 419                | 426       | 446       | 449       | 461       | 459       | 474       | 494       | 529       | 555       | 596       |           |           |           |
| 18               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 19               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 20               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 21               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 22               | Transmission Plant               |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 23               | Steel Reservoirs                 | 330                   | 278                | 313       | 329       | 338       | 348       | 375       | 494       | 537       | 537       | 722       | 722       |           |           |           |
| 24               | Elevated Steel Tanks             | 330                   | 438                | 481       | 524       | 524       | 524       | 596       | 657       | 657       | 680       | 866       | 866       |           |           |           |
| 25               | Concrete Reservoirs              | 330                   | -                  | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |           |           |
| 26               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 27               | Cast Iron Mains                  | 331                   | 365                | 364       | 388       | 390       | 417       | 427       | 452       | 457       | 476       | 503       | 548       |           |           |           |
| 28               | Steel Mains                      | 331                   | 402                | 420       | 498       | 495       | 516       | 525       | 505       | 505       | 510       | 582       | 576       |           |           |           |
| 29               | Concrete Cylinder Mains          | 331                   | 400                | 408       | 417       | 420       | 433       | 438       | 430       | 432       | 429       | 436       | 462       |           |           |           |
| 30               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 31               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 32               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 33               | Distribution Plant               |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 34               | Mains-Average All Types          | 331                   | 345                | 358       | 391       | 392       | 411       | 420       | 442       | 441       | 456       | 501       | 534       |           |           |           |
| 35               | Cast Iron Mains                  | 331                   | 363                | 359       | 387       | 389       | 414       | 422       | 451       | 455       | 473       | 503       | 551       |           |           |           |
| 36               | Cement-Asbestos Mains            | 331                   | 351                | 355       | 373       | 376       | 417       | 425       | 456       | 457       | 469       | 480       | 523       |           |           |           |
| 37               | Steel Mains                      | 331                   | 319                | 358       | 402       | 403       | 404       | 415       | 425       | 418       | 429       | 506       | 516       |           |           |           |
| 38               | PVC Mains                        | 331                   | 229                | 230       | 248       | 249       | 290       | 291       | 332       | 327       | 333       | 336       | 379       |           |           |           |
| 39               | Services Installed               | 333                   | 307                | 326       | 346       | 351       | 375       | 390       | 399       | 403       | 406       | 415       | 426       |           |           |           |
| 40               | Meters                           | 334                   | 207                | 207       | 207       | 207       | 235       | 248       | 260       | 262       | 373       | 373       | 373       |           |           |           |
| 41               | Meter Installations              | 334                   | 361                | 373       | 383       | 394       | 403       | 422       | 429       | 450       | 453       | 455       | 479       |           |           |           |
| 42               | Hydrants Installed               | 335                   | 545                | 552       | 565       | 566       | 574       | 613       | 619       | 626       | 639       | 646       | 672       |           |           |           |
| 43               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 44               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 45               | Miscellaneous Items              |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 46               | Flocculating Equipment-Installed |                       | 692                | 725       | 771       | 771       | 824       | 824       | 831       | 954       | 1159      | 1358      | 1641      |           |           |           |
| 47               | Clarifier Equipment-Installed    |                       | 600                | 602       | 660       | 660       | 678       | 678       | 700       | 833       | 849       | 872       | 920       |           |           |           |
| 48               | Filter Gallery Piping-Installed  |                       | 338                | 334       | 358       | 358       | 377       | 380       | 402       | 403       | 418       | 435       | 475       |           |           |           |
| 49               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 50               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 51               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 52               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 53               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 54               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 55               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 56               |                                  |                       |                    |           |           |           |           |           |           |           |           |           |           |           |           |           |

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