TEXAS WATER DEVELOPMENT BOARD

P.O. BOX 13231, CAPITOL STATION

AUSTIN, TX 78711-3231

2020 WATER AUDIT REPORT

A. Water Utility General Information

1. Water Utility Name **CROWN MOUNTAIN WSC**

    1a. Regional Water Planning Area   J

    1b. Address   PO BOX 305

    CAMP WOOD, TX 78833-0305

2. Contact Information

    2a. Name   Chano Falcon

    2b. Telephone Number   (956) 533-7499

    2c. Email Address   cjrfalcon@aol.com

Have you completed Water Loss Auditor Training?

⦿ Yes
◯ No

3. Reporting Period

    3a. Start Date   01/01/2020

    3b. End Date   12/31/2020

4. Source Water Utilization

			Assessment Scale
4a. Surface Water	0.00	%	
4b. Ground Water	100.00	%	
5. Population Served			
5a. Retail Population Served	105		
5b. Wholesale Population Served	0		
6. Utility's Length of Main Lines	7.30	miles	2.5
7. Total Retail Metered Connections - Active and Inactive	35		
7b. Service Connections	42		2.5
8. Number of Wholesale Connections Served	0		
9. Service Connection Density	5.75	connections per mile	
10. Average Yearly System Operating Pressure	52.00	psi	3
11. Volume Units of Measure	Gallons		

B. System Input Volume

12. Volume of Water Intake	1,823,100	gallons	
13. Produced Water	1,602,355	gallons	2.5
13a. Production Meter Accuracy	94.0	%	1.5
13b. Corrected Input Volume	1,704,633	gallons	
14. Total Treated Purchased Water	0	gallons	N/A
14a. Treated Purchased Water Meter Accuracy	0.0	%	N/A

14b. Corrected Treated Purchased Water Volume	0	gallons

15. Total Treated Wholesale Water Sales	0	gallons	N/A
15a. Treated Wholesale Water Meter Accuracy	0.0	%	N/A
15b. Corrected Treated Wholesale Water Sales Volume	0	gallons	

16. Total System Input Volume
Line 13b + Line 14b - Line 15b

1,704,633	gallons

C. Authorized Consumption

			Assessment Scale
17. Billed Metered	1,602,355	gallons	3.5
18. Billed Unmetered	0	gallons	5
19. Unbilled Metered	0	gallons	5
20. Unbilled Unmetered	21,308	gallons	1.5

21. Total Authorized Consumption

1,623,663	gallons

D. Water Losses

22. Water Losses
Line 16 - Line 21

80,970	gallons

E. Apparent Losses

23. Average Customer Meter Accuracy	98.00	%	1.5
24. Customer Meter Accuracy Loss	32,701	gallons	
25. Systematic Data Handling Discrepancy	4,006	gallons	3
26. Unauthorized Consumption	4,262	gallons	2

27. Total Apparent Losses

40,969	gallons

F. Real Losses

28. Reported Breaks and Leaks	0	gallons	1
29. Unreported Loss	40,001	gallons	0.5

30. Total Real Losses
Line 28 + Line 29

40,001	gallons

31. Total Water Losses
Line 27 + Line 30

80,970	gallons

32. Non-Revenue Water
Line 31 + Line 19 + Line 20

102,278	gallons

G. Technical Performance Indicator for Apparent Loss

33. Apparent Losses Normalized
Line 27 / Line 7b / 365

2.67	gallons lost per connection per day

H. Technical Performance Indicators for Real Loss

34. Real Loss Volume
Line 30

40,001 gallons

35. Unavoidable Annual Real Losses Volume
(5.41 * Line 6 + (Line 7b * 0.15)) * 365 * Line 10

0 gallons

36. Infrastructure Leakage Index
Line 34 / Line 35

0.00 I.L.I

37. Real Losses Normalized - Service Connections
Line 34 / Line 7b / 365

2.61 gallons lost per connection per day

38. Real Losses Normalized - Main Lines
Line 34 / Line 6 / 365

15.01 gallons lost per mile per day

I. Financial Performance Indicators

Assessment Scale

39. Total Apparent Losses
Line 27

40,969 gallons

40. Retail Price of Water

0.03363 $/gallons 3

41. Cost of Apparent Losses
Line 39 x Line 40

$1,377.78

42. Total Real Losses
Line 30

40,001 gallons

43. Variable Production Cost of Water

0.02522 $/gallons 2

44. Cost of Real Losses
Line 42 x Line 43

$1,008.79

45. Total Cost Impact of Apparent and Real Losses
Line 41 + Line 44

$2,386.57

46. Total Assessment Score

60

J. System Losses and Gallons Per Capita per Day (GPCD)

47. Total Water Loss per Connection per Day
Line 22 / Line 7b / 365

5.28 gallons

48. GPCD Input
Line 16 / Line 5a / 365

44

49. GPCD Loss
Line 31 / Line 5a / 365

2

K. Wholesale Factor Adjustments

50. Percent of Treated Wholesale Water Traveling through General Distribution System

0.00 %

51. Volume of Treated Wholesale Water Traveling through General Distribution System

(Line 50/100) * Line 15b

0   gallons

52. Wholesale Factor

Line 15b / (Line 13b + Line 14b)

0.00

53. Adjusted Real Loss Volume

((1 - Line 52) x (Line 30 * Line 50 / 100)) +
(Line 30 - (Line 30 * Line 50/100))

40,001   gallons

54. Adjusted Cost of Real Losses

((1 - Line 52) x (Line 44 * Line 50 / 100)) +
(Line 44 - (Line 44 * Line 50/100))

$1,008.79

55. Adjusted Total Water Loss Volume

((1 - Line 52) x (Line 31 * Line 50 / 100)) +
(Line 31 - (Line 31 * Line 50/100))

80,970   gallons

56. Adjusted Total Cost Impact of Apparent and Real Losses

((1 - Line 52) x (Line 45 * Line 50 / 100)) +
(Line 45 - (Line 45 * Line 50/100))

$2,386.57

57. Adjusted Real Loss Per Connection

((1 - Line 52) x (Line 37 * Line 50 / 100)) +
(Line 37 - (Line 37 * Line 50/100))

2.61   gallons lost per connection per day

58. Adjusted Real Loss Per Mile

((1 - Line 52) x (Line 38 * Line 50 / 100)) +
(Line 38 - (Line 38 * Line 50/100))

15.01   gallons lost per mile per day

59. Adjusted Infrastructure Leakage Index

((1 - Line 52) x (Line 36 * Line 50 / 100)) +
(Line 36 - (Line 36 * Line 50/100))

0.00   I.L.I

60. Adjusted Total Water Loss Per Connection Per Day

(((1 - Line 52) x (Line 37 * Line 50 / 100)) +
(Line 37 - (Line 37 * Line 50/100))) + Line 33

5.28   gallons

61. Adjusted GPCD Loss

((1 - Line 52) x (Line 49 * Line 50 / 100)) +
(Line 49 - (Line 49 * Line 50/100))

2

Comments