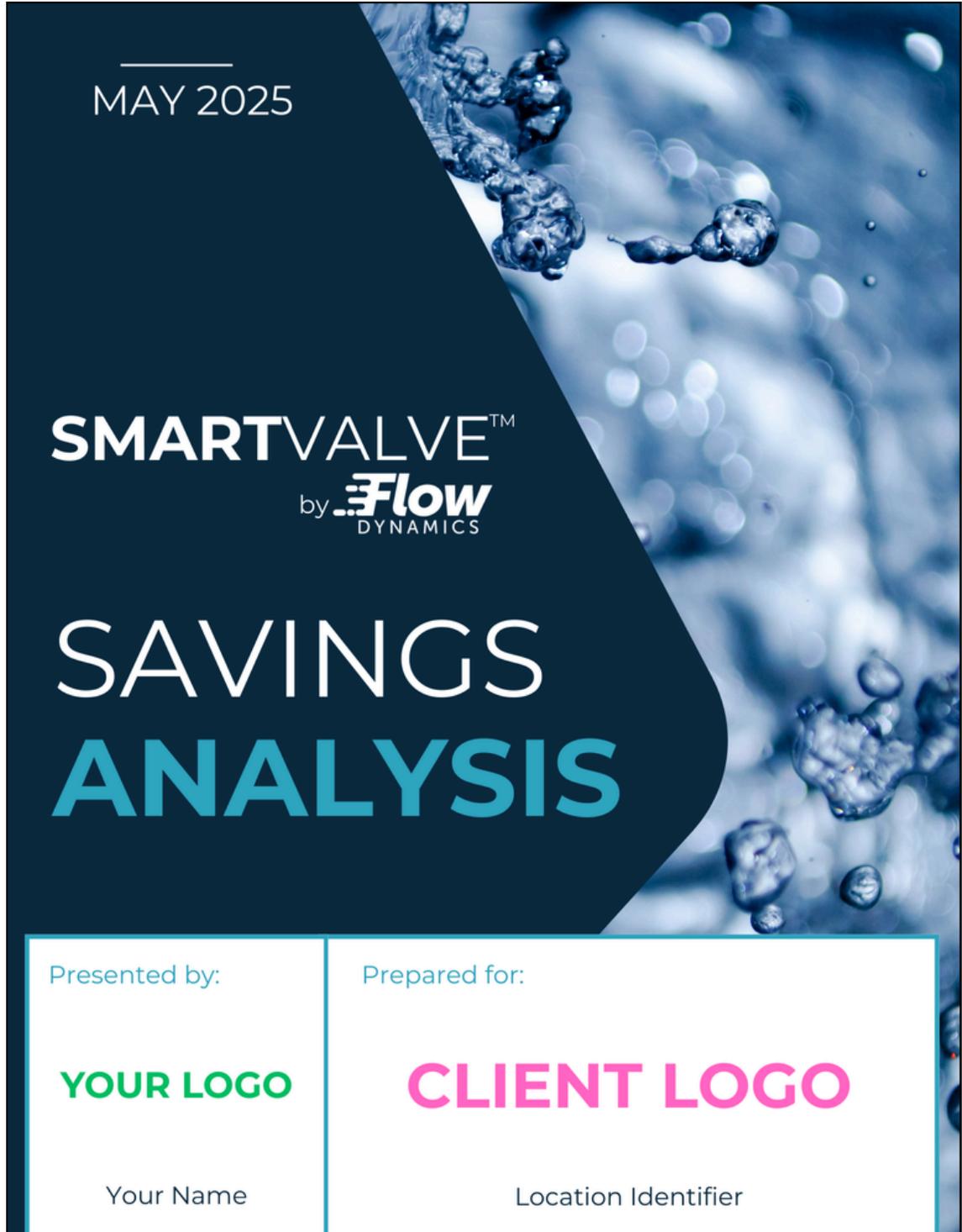


# Flow Dynamics Sample Validation Analysis

This sample walks you through how this analysis can be a powerful sales tool and how it can be catered to fit your needs.

## COVER



# PAGE 2

This page includes a summary of the results and a quick snapshot of the savings.

## SUMMARY

The **SMARTVALVE™** was installed at Client Name, **XXX** location on **January 19, 2024**, to optimize water cost. The analysis, covering a period before (31 days) and after implementation (28 days), shows a **47% reduction in water cost**, resulting in significant cost savings. This report provides an in-depth look at the financial and operational impact of the **SMARTVALVE™**, demonstrating its effectiveness in reducing waste and improving efficiency.

**CLIENT LOGO**  
Location Identifier

## ANNUALIZED SAVINGS AT-A-GLANCE

<b>Savings</b> <b>\$3,321.50</b>	<b>Projected Payback Period</b> <b>12</b> Months
<b>Gallons Measured</b> <b>255,500</b> Gallons	<b>Reduction</b> <b>47%</b>

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**SMARTVALVE™ SAVINGS ANALYSIS 02**

This page includes the before and after actual numbers.

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## BASELINE COSTS BEFORE **SMARTVALVE™**

Total Annual Consumption Measured: 543,120 gallons  
Average Monthly Consumption Measured: 44,640 gallons  
Average Daily Consumption Measured: 1,488 gallons  
Total Annual Cost: \$7,060.56

Before the **SMARTVALVE™** was installed, **the average daily water consumption measured was 1,488 gallons.** This resulted in substantial water-related expenses, including high utility bill costs and inefficient water flow management leading to wastage.

## COST SAVINGS BREAKDOWN AFTER **SMARTVALVE™**

After the **SMARTVALVE™** was installed, **the average daily water consumption measured decreased to 788 gallons.** This translates to:

- Average Annual Consumption Measured: 287,620 gallons
- Average Monthly Consumption Measured: 23,640 gallons
- Total reduction: 700 gallons per day
- Percentage reduction: 47%
- Estimated cost savings per year: \$3,321.50
- Estimated cost savings per month: \$276.79

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**SMARTVALVE™ SAVINGS ANALYSIS 03**



# PAGE 5

This page illustrates why the Smart Valve is good business decision. It also includes a Case Study style visual of their savings.

## GOOD FOR BUSINESS

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Beyond cost savings, the **SMARTVALVE™** delivers operational, sustainability, and risk-reduction advantages, ensuring long-term value and efficiency:

- **Operational Efficiency:** Maintains stable water pressure while reducing unnecessary waste. **SMARTVALVE™** also ensures that flow rates remain within optimal ranges, enhancing water meter accuracy and preventing overbilling due to air volume in the lines.
- **Sustainability Gains:** The **SMARTVALVE™** reduces the energy used by the water municipality to power the pumps that maintain system pressure. By conserving this energy, the **SMARTVALVE™** minimizes environmental impact and supports corporate sustainability initiatives.
- **Risk Reduction:** Controls excessively high water pressure, preventing overconsumption and potential damage to plumbing systems, equipment, and infrastructure. Additionally, it acts as a shock absorber against pressure surges and drops, reducing the likelihood of leaks and costly repairs.

Client Name's implementation of the **SMARTVALVE™** at this location serves as a benchmark case study, demonstrating real-world savings and efficiency improvements. The company can replicate this success at other locations to drive further cost reductions.

Annualized Savings  
**\$3,321.50**

Annualized Gallons Measured  
**255,500**

ROI  
**103%** for the 1st year



2000  
1500  
1000  
750  
500  
250

Before  
After

**47%**  
Reduction

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SMARTVALVE™ SAVINGS ANALYSIS 05

# PAGE 6

This page can be catered to your specific client/pilot. We can project out savings across potential deployments, project savings over years, or this page can be omitted.

**CLIENT LOGO**

Location Identifier

## SAVINGS PROJECTIONS

An **annual savings of \$3,321.50 per year** for Client Name is impressive however, we understand that consumption uses and cost vary per location and per municipality. We've projected what the savings for an annual water bill could look like per Client Name location.

Percentage of Savings

	15%	20%	25%	30%	35%	40%	45%	
Water Bill Annual Cost	<b>\$7,000</b>	\$1,050	\$1,400	\$1,750	\$2,100	\$2,450	\$2,800	\$3,150
<b>\$10,000</b>	\$1,500	\$2,000	\$2,500	\$3,000	\$3,500	\$4,000	\$4,500	
<b>\$15,000</b>	\$2,250	\$3,000	\$3,750	\$4,500	\$5,250	\$6,000	\$6,750	
<b>\$20,000</b>	\$3,000	\$4,000	\$5,000	\$6,000	\$7,000	\$8,000	\$9,000	

Annual Water Bill Savings Amount

With a savings of \$3,321.50 per year, if Client Name were to implement the **SMARTVALVE™** at their 3164\* locations, the cost savings would be substantial.

Savings Per Year For 3164 Locations

## \$10,509,226

Savings After 10 Years For 3164 Locations  
(After Payoff Costs, with an inflation rate of 4% per year)

## \$116,050,093

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\* Source

**SMARTVALVE™ SAVINGS ANALYSIS 06**

# PAGE 7

The recommendations on this page can be catered to your specific client/pilot. It also includes a conclusion to wrap everything up.

CLIENT LOGO

Location Identifier

# STRATEGIC RECOMMENDATIONS

Based on the significant savings and operational benefits observed at Client Name XXX location, the following strategic recommendations are proposed:

- 1. Expand Implementation Across Additional Locations:** Given the 47% reduction, rolling out the **SMARTVALVE™** across multiple locations will drive substantial cost savings and sustainability improvements at a corporate level.
- 2. Continuous Monitoring & Data Analysis:** Utilize the Smart Water Monitor to track ongoing performance, detect anomalies, catch leaks early, and fine-tune water management strategies for optimal efficiency.
- 3. Integrate SMARTVALVE™ with Irrigation Systems:** Extending the **SMARTVALVE™** solution to irrigation meters will lead to further reductions in overall consumption and costs.

## CONCLUSION

The **SMARTVALVE™** at Client Name, **reduced water costs by 47%** while enhancing financial and operational efficiency. Expanding this initiative can further improve sustainability, lower expenses, and optimize resource management. By facilitating responsible water use, the **SMARTVALVE™** supports Client Name's core value of "Pursue What's Next." With continued monitoring and scalability, this innovation aligns with Client Name's commitment to excellence and forward-thinking solutions.

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**SMARTVALVE™ SAVINGS ANALYSIS 07**



# PAGE 8

This page includes some of the calculations used to create the validation. While it doesn't include every calculation, it includes enough for those that are interested. I can provide the spreadsheets and documents I use to create all of my calculations, upon request. And, of course, your contact details are included.

**CLIENT LOGO**  
Location Identifier

## CALCULATIONS

Reduction of Water Consumption in Gallons =

$$\frac{\text{Before Daily Average} - \text{After Daily Average}}{\text{Before Daily Average}} = \frac{1,488 - 788}{1,488} = 0.47$$

---

Daily Gallons Reduction:  $1,488 - 788 = 700$  gallons/day  
Annual Reduction:  $700$  gallons per day  $\times$   $365$  days =  $255,500$  gallons per year  
Estimated Annual Cost Savings:  $255,500 \times \$0.013 = \$3,321.50$  per year

---

Initial Investment Cost (**SMARTVALVE™** + Installation) = \$4000  
Initial Investment Cost - Tax Depreciation at 20% = \$3200

Payback Period in Months =  $\frac{\text{Initial Investment Cost}}{\text{Monthly Cost Savings}} = \frac{\$3,200}{\$276.79} = 12$  Months

ROI Percentage =  $\frac{\text{Total Annual Savings} - \text{Investment}}{\text{Investment}} = \frac{\$3,321.50 - \$3,200}{\$3,200} = 103.8\%$

[Visit your Smart Water Monitor console for up-to-the-minute data.](#)

## GET IN TOUCH!

**YOUR LOGO**

Your Address

**Your Name**

- Your Website
- Your Email
- Your Phone #

SMARTVALVE™ SAVINGS ANALYSIS 08