

## 08W Cost Per Mile Report

### Data Source

- [ADA].[Delivery.DOT\_WSHP ] (WSHP: Project Log)
- SAP AO report – PRJ002
- Power Pivot to merge 2 tables and add measurements

### How to run the report

- Refresh the data in Project log sheet to fetch the most current data
- Filter the MAT code to 08W (Only)
- Copy the projects in project log and paste it in PRJ002
- Run PRJ002 one month behind of the current month
- Refresh the data in Cost per Mile Sheet

### How to filter the report

- Filter CN24 Completion Date to exclude 2 Weeks of the current month and beyond that
- Filter total installed miles to exclude 0 miles (if any)
- Look for cell L10 for Cost Per Mile
- Click on Expand/collapse button in Cell B10 “Cost Element” to see the full projects

For more accuracy, Standard Deviation concept has been added with Max and Min outlier

- In order to use SD concept, click on the arrow in cell D9 “Order” => select Value Filter => Between.
- in Value Filter Window, select Cost per Mile, and enter the Min and Max Outlier as shown in the figure below.
- Look at cell L10 for New Cost Per Mile value

The screenshot shows a Power BI report with several filters at the top: Job Owner Name, SAP Status, CN24 Status, WP Project Reporting Year, Program, MPP Resource, and CN24 Completion Date. The main data table has columns: Order, Order Description, Job Owner Name, CN24 Completion Date, No. Projects In Project Log, No. Projects Have Cost Elements, Total Installed Miles, Total Actual Amt, Cost Per Mile, Standard Deviation, Average for SD, Max Outlier, and Min Outlier. A 'Value Filter' dialog box is open, showing the 'Between' option selected for the 'Order' column.

| Order | Order Description | Job Owner Name | CN24 Completion Date | No. Projects In Project Log | No. Projects Have Cost Elements | Total Installed Miles | Total Actual Amt | Cost Per Mile  | Standard Deviation | Average for SD | Max Outlier    | Min Outlier  |
|-------|-------------------|----------------|----------------------|-----------------------------|---------------------------------|-----------------------|------------------|----------------|--------------------|----------------|----------------|--------------|
| 154   |                   |                |                      | 154                         | 154                             | 219,289,734.8         | \$406,674,326.55 | \$1,854,506.90 | \$1,353,190.39     | \$1,984,088.27 | \$3,337,278.66 | \$630,897.88 |
| 154   |                   |                |                      | 154                         | 154                             | 219,289,734.8         | \$406,674,326.55 | \$1,854,506.90 | \$1,353,190.39     | \$1,984,088.27 | \$3,337,278.66 | \$630,897.88 |

The screenshot shows a Power BI report with a data table and a 'Value Filter (Order)' dialog box. The table has columns: No. Projects have Cost Elements, Total Installed Miles, Total Actual Amt, Cost Per Mile, Standard Deviation, Average for SD, Max Outlier, and Min Outlier. The 'Value Filter (Order)' dialog box is open, showing the 'Cost Per Mile' column selected and the filter set to 'is between' with values 630897.88 and 3337278.66.

| No. Projects have Cost Elements | Total Installed Miles | Total Actual Amt | Cost Per Mile  | Standard Deviation | Average for SD | Max Outlier    | Min Outlier  |
|---------------------------------|-----------------------|------------------|----------------|--------------------|----------------|----------------|--------------|
| 154                             | 219,289,734.8         | \$406,674,326.55 | \$1,854,506.90 | \$1,353,190.39     | \$1,984,088.27 | \$3,337,278.66 | \$630,897.88 |
| 154                             | 219,289,734.8         | \$406,674,326.55 | \$1,854,506.90 | \$1,353,190.39     | \$1,984,088.27 | \$3,337,278.66 | \$630,897.88 |

## Report Customization

There are many slicers added to the report as below:

- Division
- County
- City
- JOB Owner Name
- SAP Status
- CN24 Status
- WP Reporting Year
- Program Name

- MPP Resources (GC Vs Contract)
- And lastly this report can drilldown and calculate the average cost per mile per Cost Element.