# **SKAGIT COUNTY**



# FINANCIAL AND OPERATIONAL SUMMARY For period July 1, 2006 through June 30, 2008



Prepared by Skagit County Public Works Department

### FINANCIAL AND OPERATIONAL ANALYSIS OF EXTENDED FERRY SERVICE

### BACKGROUND

On May 30, 2006, the Board of County Commissioners signed Resolution R20060184, revising the Guemes Island ferry sailing schedule by extending the hours of service between 6:30 p.m. and 10:00 p.m. Monday through Thursday. This extension of service was to occur over a two year trial period after which a decision would be made on whether to continue or modify the extended service. The purpose of the schedule change was to address several ferry related issues including: the desire by many ferry customers for weekday evening service, operational and manning issues attributed to the U.S. Coast Guard fatigue study, vehicle congestion issues on 6<sup>th</sup> Street in Anacortes, and general level of service issues associated with providing a transportation service. The trial period began on July 1, 2006, and ran through June 30, 2008.

### TRIAL PERIOD ANALYSIS

The following is an analysis of the extended ferry service which considers financial impacts, overall ridership patterns, and operational issues.

### Financial Impacts:

*Operational Costs:* Working with the ferry committee through the Roundtable, costs associated with expanded service consisted of three primary components; labor, fuel and maintenance<sup>1</sup>. As summarized in Attachment A, the average annual cost of providing increased service was \$104,088.

*Revenues:* Working with the ferry committee through the Roundtable, average annual revenue was calculated using actual ridership data and estimated ticket revenue associated with the mentioned ridership data. As detailed in Attachment B, the direct average annual revenues received from customers who rode the ferry during the hours of expanded service was between \$32,099 and \$47,421. The range is due to the uncertainty on whether revenue from passengers who rode the 6:30 p.m. ferry should be included as reportable revenue for extended service or not; (five additional sailings starting at 6:30 p.m., versus four additional sailings starting at 7:00 p.m.). For the purposes of this report, both figures have been included.

<sup>&</sup>lt;sup>1</sup> Carl Cady, representing the ferry committee, indicated his general agreement with operational costs contingent upon the recognition that the ferry committee believes that labor negotiations in 2002 increased operational costs by an average of 0.62 hours per crew person thereby resulting in additional labor costs of approximately \$15,200. While Public Works cannot confirm these figures or its relevancy, as a means of getting concurrence with the financial analysis of extended service, the ferry committee's point is being noted by this footnote.

A summary of the financial impact and ridership of operating the ferry system with expanded service is provided in the tables 1 and 2 below.

| - | •~ | Ы |   | 4 |
|---|----|---|---|---|
| L | a  | D | e |   |

| Annual Financial Impact of Expanded Service              |                  |                              |                  |  |  |  |  |  |
|--|------------------|------------------------------|------------------|--|--|--|--|--|
| Includes 6:30 p.m. run Excludes 6:30 p.m. run            |                  |                              |                  |  |  |  |  |  |
| Avg. Annual Expenses                                     | \$104,088        | Avg. Annual Expenses         | \$104,088        |  |  |  |  |  |
| Avg. Annual Revenue                                      | <u>\$ 47,421</u> | Avg. Annual Revenue          | <u>\$ 32,099</u> |  |  |  |  |  |
| Annual Expenses LessAnnual Expenses LessRevenue:Revenue: |                  |                              |                  |  |  |  |  |  |
| Net Gain <mark>(Loss)</mark>                             | (\$ 56,667)      | Net Gain <mark>(Loss)</mark> | (\$ 71,989)      |  |  |  |  |  |

### Table 2

| Annual Ridership Summary                |        |                  |        |  |  |  |  |
|---|--------|------------------|--------|--|--|--|--|
| 6:30 p.m 10:00 p.m. 7:00 p.m 10:00 p.m. |        |                  |        |  |  |  |  |
| Total Passengers                        | 27,903 | Total Passengers | 19,169 |  |  |  |  |
| Total Vehicles                          | 12,067 | Total Vehicles   | 8,076  |  |  |  |  |

Because the above financial analysis only relates directly to those hours of extended ferry service (Monday through Thursday 6:30 p.m. to 10:00 p.m.), Public Works cautions the reader that such an analysis does not represent a holistic approach to evaluating and recommending long term ferry schedule changes. As will be more fully described below, Public Works suggests a possible alternative ferry schedule that better balances ridership demands, operational issues and financial costs.

### Ridership Patterns:

Attached as Exhibits C-1 through C-7 are daily graphs of the ridership patterns over the trial period. The graphs are based on the number of total passengers using the ferry boarding counts for both walk-on passengers and drivers. The graphs have delineated ridership during the winter period (October through April), and summer period (May through September), as there is a distinguishable ridership difference during these months. In general, the daily ridership graphs indicate a similar demand pattern throughout each day of the week.

In utilizing these graphs to evaluate a desired level of service for the ferry system, it is important to keep in mind that only those hours at the beginning and end of the day should considered, as it is not operationally feasible to stop

service mid-day. It is also important not to focus solely on the hours of extended service (Monday through Thursday 6:30 p.m. to 10:00 p.m.), but to evaluate the demand for service over the entire week and operating hours. Based on the ridership graphs, Public Works believes there are opportunities to reduce service at the end of most days without major impacts to our customers.

### Operational issues:

Prior to providing extended service, the ferry system experienced two operational issues that needed to be addressed. First, due to a practice of not leaving anyone behind at the end of the day, the evening ferry crew had no advanced knowledge of when their shift would end. This practice not only resulted in additional overtime costs, but placed an undue requirement on the crew, who were regularly required to be ready to work additional hours without any notice. Such a requirement, particularly considering the time of the day, potentially impacts those ferry employees who have children, attend community/social Second, the collective bargaining events, or have other commitments. agreement along with other agreements between the County and ferry employees outlines minimum monthly work hours and generally accepted practices of crew shifting. Prior to providing extended service, the evening crew shifts on Monday through Thursday were not viable shifts and were filled only by on-call staffing. From an operational point of view, to only rely on on-call staffing and not hire and maintain seasoned and experienced crews proved to be very challenging and costly. Since the establishment of extended service, both of these operational issues have diminished.

### ANALYSIS OVERVIEW

Over the course of the past two years, a substantial amount of comments have been voiced concerning extended ferry service, both those in favor and those opposed. From an operational point of view, Public Works suggests not viewing this issue solely through the lens of extended ferry service Monday through Thursday 6:30 p.m. to 10:00 p.m., but discussing the entire service provided, Sunday through Saturday, and balancing level of service needs with operational constraints and costs.

By taking a holistic approach, many of the fundamental reasons why extended service was first initiated can be addressed. How can the system best meet requests by many ferry customers for expanded weekday service? How does the County as a ferry system operator address operational and manning issues attributed to the U.S. Coast Guard fatigue study? Is it possible to reduce vehicle congestion issues on 6<sup>th</sup> Street in Anacortes? How do we balance costs with level of service?

On a final note, it is often overlooked that over the past eighteen months various operational changes have been instituted as a means of reducing operational

costs. These changes have included re-establishing the 3-person crew during non-peak hours, combining the senior master and ferry manager positions, and having the ferry mechanic work some deckhand shifts. These cost reductions are reflected in the proposed 2009 ferry budget. As additional opportunities present themselves, Public Works will continue to explore cost-saving options.

### SUGGESTED ALTERNATIVE FERRY SCHEDULE

Based on ridership pattern data as shown in Attachment C-1 through C-7 and operational crew scheduling issues, Public Works suggests an alternative ferry schedule as shown in Attachment D. In essence, the suggested schedule eliminates the last run each day, Monday through Saturday and leaves Sunday unchanged. As detailed in Attachment E, the estimated annual cost savings associated with this schedule is \$55,000.

Public Works suggests the alternative ferry schedule as a balance between ridership demand, operational issues and costs. As shown in Attachment C, ridership on the last run of each day is low and the reduction of this run will have minimal impact to our customers. As shown in Attachment D, this schedule also allows the staffing of two full-time crews, thereby eliminating substandard work shifts. And, as mentioned above, the annual operating cost savings is estimated at \$55,000.

#### ATTACHMENT A

#### EXPENSES 5 Runs 6:30 p.m. - 10:00 p.m. For Period July 1, 2006 - June 30, 2008

|   | Labor           |             |    |            |
|---|-----------------|-------------|----|------------|
| 88 Weeks with 4 Person Crew               |                 |             |    |            |
| 88 Weeks = 352 Days (4/Week)              |                 |             |    |            |
| 13.50 Hours/Day (2@3 & 2@3.75)            |                 |             |    |            |
| 352  Days = 4,752  Hours                  | <b>^</b>        | 4 40 044 00 |    |            |
| Labor Cost Per Hour = \$29.59             | \$              | 140,611.68  |    |            |
| 16 Weeks with 3 Person Crew               |                 |             |    |            |
| 16 Weeks = 64 Days $(4/Week)$             |                 |             |    |            |
| 9 75 Hours/Day (2@3 & 1@3 75)             |                 |             |    |            |
| 64 Days = 624 Hours                       |                 |             |    |            |
| Labor Cost Per Hour - \$29.59             | \$              | 18,464.16   |    |            |
|   |                 |             |    |            |
| Labor Costs over two years :              | \$              | 159,075.84  |    |            |
| Annual Labor Costs:                       |                 |             | \$ | 79,537.92  |
|   | Fuel            |             |    |            |
| 2 Veero                                   | Fuei            | 227 227 00  |    |            |
| 2 Teals<br>Cost/Pup_17 680 Pups           | ¢               | 327,027.00  |    |            |
| Number of Extended Runs                   | Ψ               | 10.54       |    |            |
| Extended Runs - 5                         |                 | 2 080       |    |            |
|   |                 | 2,000       |    |            |
| Total Fuel Costs per Year:                |                 |             | \$ | 19,281.60  |
| -   |                 |             |    |            |
| Minor E                                   | Engine Tune-ups | 4 40        |    |            |
| I une-up @ 1500 hours                     | \$              | 1,400.00    |    |            |
| I une-up cost per hr                      | \$              | 0.93        |    |            |
| HOURS OF EXTENDED SERVICE                 |                 | 1 664       |    |            |
| HINS Day/4 DayS/Week                      |                 | 1,004       |    |            |
| Total Costs - Minor Tune-up per Year      |                 |             | \$ | 776 53     |
|   |                 |             | Ŷ  | . / 0.00   |
| Major E                                   | Engine Tune-ups |             |    |            |
| Tune-up @ 6000 hours                      | \$              | 6,648.50    | _  |            |
| Tune-up cost per hr                       | \$              | 1.11        |    |            |
| Hours of extended service                 |                 |             |    |            |
| 4 Hrs Day/4 Days/Week                     |                 | 1,664       |    |            |
| Total Costs - Major Tune-up per Venr      |                 |             | \$ | 921 93     |
|   |                 |             | Ψ  | 521.35     |
| En  | gine Rebuild    |             |    |            |
| Rebuild @ 30,000 Hrs                      | \$              | 20,000.00   |    |            |
| Rebuild cost per hr                       | \$              | 0.67        |    |            |
| Hours of Extended Svc                     |                 |             |    |            |
| 4 Hrs Day/4 Days Week                     |                 | 1,664       |    |            |
| Total Rebuild Costs-Ext Hours per Voor    |                 |             | ¢  | 557 11     |
| Total Nebuliu Costs-Ext Hours per feat.   |                 |             | φ  | 557.44     |
| C   | il Changes      |             |    |            |
| 55 Gallons Oil                            | \$              | 480.00      |    |            |
| 4-Main Engine Oil Filters                 | \$              | 200.00      |    |            |
| 2-Primary Fuel Filters                    | \$              | 100.00      |    |            |
| 2-Racor Fuel Filters                      | \$              | 50.00       |    |            |
| 2-Transmission Filters                    | \$              | 50.00       |    |            |
| 1-Genset Oil Filter                       | \$              | 15.00       |    |            |
| 2-Genset Fuel Filters                     | \$              | 40.00       |    |            |
| Cost per Oil Change                       | \$              | 935.00      |    |            |
| Total cost for Oil Changes per Year (3 ex | tra/vear):      |             | \$ | 2.805.00   |
|   |                 |             | Ŷ  | 2,300.00   |
| Transi                                    | mission Rebuild |             |    |            |
| Rebuild @ 20,000 Hours                    | \$              | 5,000.00    |    |            |
| Rebuild cost per hr                       | \$              | 0.25        |    |            |
| Hours of Extended Svc                     |                 | 4 00 4      |    |            |
| 4 HIS Day/4 Days Week                     |                 | 1,664       |    |            |
| Total Rebuild Costs-Ext Hours per Year:   |                 |             | \$ | 208.00     |
| Annual Cost of Extended Runs per Yea      | ar:             |             | \$ | 104,088.42 |
|   |                 |             |    |            |

\*Prior to extended hours, labor hours per day (Mon-Thurs) were equal to 14.25 regular hours. This was paid out as 13.5 hours regular and .5 overtime, with .5 hours overtime equal to .75 hours regular time. During extended hours, labor hours per day (Mon-Thurs) are equal to 17.25 regular hours, meaning that extended hours creates 3 additional labor hours per day (Mon-Thurs).

# ATTACHMENT B

### PASSENGER AND VEHICLE EXTENDED SERVICE REVENUE

|           | July            |                                |                    |                    |
|-----------|-----------------|--------------------------------|--------------------|--------------------|
|           | Total Ridership | Average Price<br>Per Passenger | Total Revenue      | Total<br>Ridership |
|           | 6:3             | 0 p.m 10:00 p                  | .m.                | e                  |
| Passenger | 7,623           | \$1.47                         | \$11,205.81        | 8,213              |
| Vehicle   | 5,930           | \$5.93                         | <u>\$35,164.90</u> | 6,137              |
|           |                 |                                | \$46,370.71        |                    |
|           | 7:0             | 0 p.m 10:00 p                  | .m.                | 7                  |
| Passenger | 5,224           | \$1.47                         | \$7,679.28         | 5,869              |
| Vehicle   | 3,899           | \$5.93                         | <u>\$23,121.07</u> | 4,177              |
|           |                 |                                | \$30,800.35        |                    |

| July 1, 2007 - June 30, 2008 |                                |                    |  |  |  |  |  |  |
|------------------------------|--------------------------------|--------------------|--|--|--|--|--|--|
| Total<br>Ridership           | Average Price<br>Per Passenger | Total Revenue      |  |  |  |  |  |  |
| 6:30 p.m 10:00 p.m.          |                                |                    |  |  |  |  |  |  |
| 8,213                        | \$1.47                         | \$12,073.11        |  |  |  |  |  |  |
| 6,137                        | \$5.93                         | <u>\$36,392.41</u> |  |  |  |  |  |  |
|                              |                                | \$48,465.52        |  |  |  |  |  |  |
| 7:                           | 00 p.m 10:00 p                 | .m.                |  |  |  |  |  |  |
| 5,869                        | \$1.47                         | \$8,627.43         |  |  |  |  |  |  |
| 4,177                        | \$5.93                         | <u>\$24,769.61</u> |  |  |  |  |  |  |
|                              |                                | \$33,397.04        |  |  |  |  |  |  |

| Average Annual Revenues |               |    |           |  |  |  |  |
|-------------------------|---------------|----|-----------|--|--|--|--|
| Average                 |               |    | Averqge   |  |  |  |  |
| Annual                  | Average Price |    | Annual    |  |  |  |  |
| Ridership               | Per Passenger |    | Revenue   |  |  |  |  |
| 6:30 p.m 10:00 p.m.     |               |    |           |  |  |  |  |
| 7,918                   | \$1.47        | \$ | 11,639.46 |  |  |  |  |
| 6,034                   | \$5.93        | \$ | 35,781.62 |  |  |  |  |
|                         |               | \$ | 47,421.08 |  |  |  |  |
| 7:00 p.m 10:00 p.m.     |               |    |           |  |  |  |  |
| 5,547                   | \$1.47        | \$ | 8,154.09  |  |  |  |  |
| 4,038                   | \$5.93        | \$ | 23,945.34 |  |  |  |  |
|                         |               | \$ | 32,099.43 |  |  |  |  |

# RIDERSHIP PATTERNS

For Period July 1, 2006 - June 30, 2008

Sunday



# RIDERSHIP PATTERNS

For Period July 1, 2006 - June 30, 2008

Monday



# **RIDERSHIP PATTERNS**

For Period July 1, 2006 - June 30, 2008

Tuesday



# RIDERSHIP PATTERNS

For Period July 1, 2006 - June 30, 2008

Wednesday



# RIDERSHIP PATTERNS

For Period July 1, 2006 - June 30, 2008

Thursday



# RIDERSHIP PATTERNS

For Period July 1, 2006 - June 30, 2008

Friday



# **RIDERSHIP PATTERNS**

For Period July 1, 2006 - June 30, 2008

Saturday



# Runs Ranked by Usage Least Used to Most Used

For Period July 1, 2006 - June 30, 2008

| Sur  | nday | Mor  | nday | Tues | sday | Wedn | esday | Thur | sday | Frie | day | Satu | rday |
|------|------|------|------|------|------|------|-------|------|------|------|-----|------|------|
| Time | Ave  | Time | Ave  | Time | Ave  | Time | Ave   | Time | Ave  | Time | Ave | Time | Ave  |
| 2200 | 22   | 2100 | 14   | 2100 | 14   | 2100 | 15    | 2100 | 19   | 2400 | 16  | 0630 | 15   |
| 2100 | 22   | 2200 | 15   | 2200 | 15   | 2200 | 19    | 2200 | 21   | 2300 | 21  | 2400 | 17   |
| 0700 | 23   | 1900 | 28   | 1400 | 25   | 1900 | 28    | 1900 | 31   | 0700 | 37  | 0700 | 19   |
| 1830 | 34   | 2030 | 30   | 1900 | 28   | 2030 | 34    | 2030 | 37   | 2200 | 38  | 2300 | 23   |
| 0800 | 37   | 0700 | 39   | 2030 | 31   | 1400 | 36    | 1400 | 37   | 0630 | 40  | 2100 | 31   |
| 0930 | 39   | 1400 | 39   | 0915 | 32   | 0700 | 38    | 0700 | 41   | 2100 | 46  | 2200 | 34   |
| 1900 | 42   | 1830 | 41   | 0700 | 41   | 0630 | 45    | 0630 | 43   | 0730 | 47  | 0945 | 51   |
| 2030 | 47   | 0630 | 44   | 1830 | 41   | 1830 | 45    | 1830 | 44   | 0915 | 49  | 0800 | 53   |
| 0900 | 47   | 0730 | 45   | 0630 | 44   | 0945 | 46    | 0915 | 45   | 0945 | 49  | 1430 | 55   |
| 1515 | 52   | 1645 | 46   | 0730 | 45   | 0730 | 46    | 0945 | 45   | 0845 | 50  | 1400 | 56   |
| 1400 | 56   | 0845 | 46   | 1615 | 49   | 1645 | 47    | 0730 | 46   | 1400 | 51  | 2030 | 59   |
| 1000 | 58   | 0915 | 47   | 1330 | 49   | 0845 | 47    | 1645 | 48   | 1900 | 52  | 1900 | 63   |
| 1445 | 63   | 1745 | 48   | 1745 | 49   | 1430 | 48    | 0845 | 49   | 1645 | 55  | 1015 | 64   |
| 1800 | 64   | 1615 | 48   | 0845 | 50   | 1100 | 48    | 1100 | 49   | 0815 | 55  | 1330 | 68   |
| 1330 | 66   | 0945 | 49   | 1645 | 51   | 0915 | 48    | 1330 | 49   | 1615 | 55  | 1045 | 69   |
| 1100 | 69   | 1430 | 49   | 1100 | 51   | 1330 | 48    | 1745 | 50   | 1715 | 56  | 0905 | 72   |
| 1130 | 71   | 1330 | 51   | 1715 | 51   | 1615 | 49    | 1030 | 50   | 1745 | 56  | 1115 | 75   |
| 1700 | 81   | 1715 | 52   | 1030 | 53   | 1030 | 51    | 1430 | 50   | 1100 | 57  | 1700 | 80   |
| 1600 | 86   | 1030 | 54   | 1130 | 53   | 1745 | 51    | 1615 | 51   | 1030 | 57  | 1515 | 82   |
| 1300 | 94   | 1100 | 55   | 0945 | 54   | 1715 | 51    | 1130 | 52   | 1430 | 58  | 1800 | 84   |
|      |      | 0815 | 55   | 1430 | 56   | 1130 | 53    | 1715 | 53   | 1830 | 58  | 1300 | 94   |
|      |      | 1130 | 57   | 0815 | 56   | 1515 | 58    | 0815 | 55   | 1330 | 60  | 1600 | 103  |
|      |      | 1545 | 57   | 1515 | 60   | 1545 | 58    | 1515 | 57   | 2030 | 61  |      |      |
|      |      | 1515 | 59   | 1545 | 61   | 0815 | 58    | 1545 | 60   | 1130 | 62  |      |      |
|      |      | 1300 | 71   | 1300 | 69   | 1300 | 65    | 1300 | 67   | 1545 | 63  |      |      |
|      |      |      |      |      |      |      |       |      |      | 1515 | 65  |      |      |
|      |      |      |      |      |      |      |       |      |      | 1300 | 74  |      |      |

#### ATTACHMENT D

### SAILING SCHEDULE

| MONDAY - THURSDAY     | FRIDAY                | SATURDAY              | SUNDAY                |
|-----------------------|-----------------------|-----------------------|-----------------------|
|                       | DEPARTUR              | RETIMES               | CONDAT                |
| 6:30 a.m.             | 6:30 a.m.             | 6:30 a.m.             |                       |
| 7:00 a.m.             | 7:00 a.m.             | 7:00 a.m.             | 7:00 a.m.             |
| 7:30 a.m.             | 7:30 a.m.             |                       |                       |
| 8:00 a.m.             | 8:00 a.m.             | 8:00 a.m.             | 8:00 a.m.             |
| 8:30 a.m.             | 8:30 a.m.             |                       |                       |
| 9:15 a.m.             | 9:15 a.m.             | 9:00 a.m.             | 9:00 a.m.             |
| 9:45 a.m.             | 9:45 a.m.             |                       |                       |
| 10:15 a.m.            | 10:15 a.m.            | 10:00 a.m.            | 10:00 a.m.            |
| 11:00 a.m.            | 11:00 a.m.            | 11:00 a.m.            | 11:00 a.m.            |
| 11:30 a.m.            | 11:30 a.m.            |                       |                       |
| 1:00 p.m.             | 1:00 p.m.             | 1:00 p.m.             | 1:00 p.m.             |
| 1:30 p.m.             | 1:30 p.m.             | 1:30 p.m.             | 1:30 p.m.             |
|                       |                       |                       | 2:00 p.m.             |
| Crew Change 2:00 p.m. | Crew Change 2:00 p.m. | Crew Change 2:00 p.m. | Crew Change 2:30 p.m. |
| 2:30 p.m.             | 2:30 p.m.             | 2:30 p.m.             |                       |
| 3:00 p.m.             | 3:00 p.m.             | 3:00 p.m.             | 3:00 p.m.             |
| 3:30 p.m.             | 3:30 p.m.             |                       | 3:30 p.m.             |
| 4:00 p.m.             | 4:00 p.m.             | 4:00 p.m.             | 4:00 p.m.             |
| 4:45 p.m.             | 4:45 p.m.             | 5:00 p.m.             | 5:00 p.m.             |
| 5:15 p.m.             | 5:15 p.m.             |                       |                       |
| 5:45 p.m.             | 5:45 p.m.             | 6:00 p.m.             | 6:00 p.m.             |
| 6:15 p.m.             | 6:15 p.m.             |                       |                       |
| 7:00 p.m.             | 7:00 p.m.             | 7:00 p.m.             | 7:00 p.m.             |
| 7:30 p.m.             | 7:30 p.m.             | 7:30 p.m.             | 7:30 p.m.             |
| 8:45 p.m.             | 8:45 p.m.             | 8:45 p.m.             | 8:45 p.m.             |
| 9:15 p.m.             | 9:15 p.m.             | 9:15 p.m.             | 9:15 p.m.             |
|                       | 10:00 p.m.            | 10:00 p.m.            | 10:00 p.m.            |
|                       | 11.00 p m             | 11:00 n m             |                       |

| CREW SCHEDULE   |  |  |   |  |  |  |  |
|---|--|--|---|--|--|--|--|
| Oct- Apr  | Oct- Apr   | Oct- Apr   | Oct- Apr  |  |  |  |  |
| <b>AM SHIFT</b><br>0600 - 1415 = 8.25<br><b>PM SHIFT</b><br>1400 - 2200 = 8.0 | <b>AM SHIFT</b><br>0600 - 1415 = 8.25<br><b>PM SHIFT</b><br>1400 - 2345 = 9.75 | <b>AM SHIFT</b><br>0600 - 1415 = 8.25<br><b>PM SHIFT</b><br>1400 - 2345 = 9.75 | <b>AM SHIFT</b><br>06:30 a.m 1445 = 8.25<br><b>PM SHIFT</b><br>1430 - 2245 = 8.25 |  |  |  |  |
| Oct- Apr<br>May-Jun-Sept  | Oct- Apr<br>May-Jun-Sept   | Jul - Aug  | Jul - Aug   |  |  |  |  |
| Mid shift<br>745 -16:30 a.m. = 8.75   | Mid shift<br>745 -16:30 a.m. = 8.75  | 4 man crew   | 4 man crew  |  |  |  |  |

|                         | Man Hours Cost Analysis |              |              |                          |         |              |              |                  |  |
|-------------------------|-------------------------|--------------|--------------|--------------------------|---------|--------------|--------------|------------------|--|
| Current Daily Man Hours |                         |              |              | Proposed Daily Man Hours |         |              |              |                  |  |
| October - April         |                         | Total per wk | Total 31 wks | October - April          |         | Total per wk | Total 31 wks | Savings per year |  |
|                         |                         |              |              |                          |         |              |              |                  |  |
| Monday                  | 61.75                   |              |              | Monday                   | 57.5    |              |              |                  |  |
| Tuesday                 | 61.75                   |              |              | Tuesday                  | 57.5    |              |              |                  |  |
| Wednesday               | 61.75                   |              |              | Wednesday                | 57.5    |              |              |                  |  |
| Thursday                | 61.75                   |              |              | Thursday                 | 57.5    |              |              |                  |  |
| Friday                  | 67.75                   |              |              | Friday                   | 62.75   |              |              |                  |  |
| Saturday                | 57.75                   |              |              | Saturday                 | 54      |              |              |                  |  |
| Sunday                  | 50.25                   |              |              | Sunday                   | 49.5    |              |              |                  |  |
| Total hours per week    | 422.75                  |              |              | Total hours per week     | 396.25  |              |              |                  |  |
| Rate per hour           | \$29.59                 | \$12,509.17  | \$387,784.35 | Rate per hour            | \$29.59 | \$11,725.04  | \$363,476.16 | \$24,308.19      |  |
| Current Daily Man Hours |                         |              |              | Proposed Daily Man Hours |         |              |              |                  |  |
| May, June, & September  |                         | Total per wk | Total 12 wks | May, June, & September   |         | Total per wk | Total 12 wks | Savings per year |  |
|                         |                         |              |              |                          |         |              |              |                  |  |
| Monday                  | 61.75                   |              |              | Monday                   | 57.5    |              |              |                  |  |
| Tuesday                 | 61.75                   |              |              | Tuesday                  | 57.5    |              |              |                  |  |
| Wednesday               | 61.75                   |              |              | Wednesday                | 57.5    |              |              |                  |  |
| Thursday                | 61.75                   |              |              | Thursday                 | 57.5    |              |              |                  |  |
| Friday                  | 67.75                   |              |              | Friday                   | 62.75   |              |              |                  |  |
| Saturday                | 67.75                   |              |              | Saturday                 | 62.75   |              |              |                  |  |
| Sunday                  | 60.25                   |              |              | Sunday                   | 58.25   |              |              |                  |  |
| Total hours per week    | 442.75                  |              |              | Total hours per week     | 413.75  |              |              |                  |  |
| Rate per hour           | \$29.59                 | \$13,100.97  | \$157,211.67 | Rate per hour            | \$29.59 | \$12,242.86  | \$146,914.35 | \$10,297.32      |  |
| Current Daily Man Hours |                         |              |              | Proposed Daily Man Hours |         |              |              |                  |  |
| July - August           |                         | Total per wk | Total 9 wks  | July - August            |         | Total per wk | Total 9 wks  | Savings per year |  |
| Monday                  | 61.75                   |              |              | Monday                   | 57.5    |              |              |                  |  |
| Tuesday                 | 61.75                   |              |              | Tuesday                  | 57.5    |              |              |                  |  |
| Wednesday               | 61.75                   |              |              | Wednesday                | 57.5    |              |              |                  |  |
| Thursday                | 61.75                   |              |              | Thursday                 | 57.5    |              |              |                  |  |
| Friday                  | 77                      |              |              | Friday                   | 72      |              |              |                  |  |
| Saturday                | 77                      |              |              | Saturday                 | 72      |              |              |                  |  |
| Sunday                  | 68                      |              |              | Sunday                   | 66      |              |              |                  |  |
| Total hours per week    | 469                     |              |              | Total hours per week     | 440     |              |              |                  |  |
| Rate per hour           | \$29.59                 | \$13,877.71  | \$124,899.39 | Rate per hour            | \$29.59 | \$13,019.60  | \$117,176.40 | \$7,722.99       |  |
|                         |                         |              | 1            | Man Hour Savings Per     | Year    | 1            |              | \$42,328.50      |  |
|                         |                         |              |              | Fuel Savings @ \$18.54   | Per Run |              |              | \$10,604.88      |  |

Fuel Savings @ \$18.54 Per Run Maintenance Savings Annual Estimated Cost Savings

\$2,100.00 \$55,033.38