



# City of Grand Island

Tuesday, February 11, 2003

Study Session

## Item C2

### **Presentation of Public Works Annual Report.**

*Council received copies of the Public Works Department's Annual Report in January. Public Works Director Steve Riehle will present Council with a few highlights from the report. Please see attached presentation.*

Staff Contact: Steve Riehle, City Engineer/Public Works Director

## Public Works Annual Report 2001-2002

Street and Transportation



Wastewater



Engineering



Solid Waste



Fleet Services




---

---

---

---

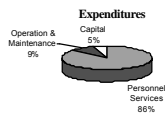
---

---

---

---

## Engineering Expenditures and Receipts




---

---

---

---

---

---

---

---

## Street and Transportation Division Responsibilities

- Concrete Repair
- Concrete Curb Milling
- Asphalt Repair
- Pothole Patching
- Joint & Crack Sealing
- Traffic Signal Maintenance
- Traffic Sign Maintenance
- Pavement Markings
- Street & Alley Grading
- Mowing
- Street Sweeping
- Storm Water Drainage
- Snow Plowing
- Snow Hauling
- Ice Control
- And, of course, anything else that needs to be done




---

---

---

---

---

---

---

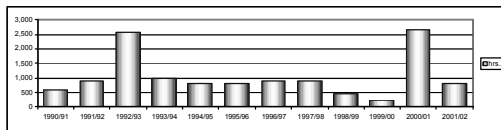
---

## Street and Transportation Division Expenditures and Receipts



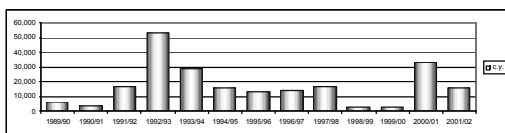
## Snow Plowing

1. Emergency Routes are plowed when 2" of snow have fallen.
2. School areas are plowed after emergency routes.
3. Residential areas are plowed at 5" of snow - typically after snowfall has ceased and emergency routes are clear.



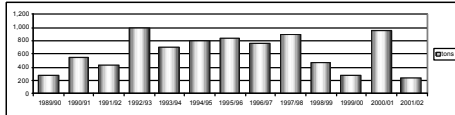
## Snow Hauling

- Downtown snow is plowed away from the curbs to the centers of the streets.
- Snow-blowers are used to load the snow into dump trucks.
- Snow is hauled away to snow dump areas.



## Ice Control

- Typically salt, sand, and calcium chloride are used.
- Spreading rates and material combinations vary according to conditions.
- The Street Division has 3 salt trucks available - a 4<sup>th</sup> Truck has been ordered.
- The Police Officers are our "Eyes & Ears". GIPD generally makes the decision on the call out. The Shift Sgt notifies Street & Transportation Division.
- Salt routes are generally stop sign protected streets.




---

---

---

---

---

---

---

---

## Fleet Services Division




---

---

---

---

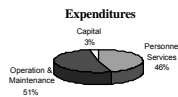
---

---

---

---

## Fleet Services Division Expenditures and Receipts




---

---

---

---

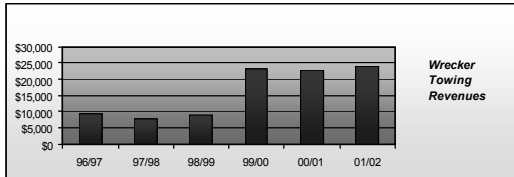
---

---

---

---

### Wrecker Towing Revenues




---

---

---

---

---

---

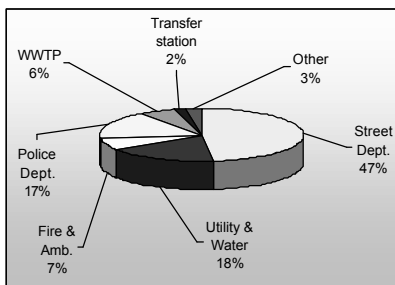
---

---

---

---

### Fleet Services Revenue Sources




---

---

---

---

---

---

---

---

---

---

### Wastewater Division




---

---

---

---

---

---

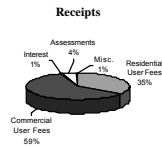
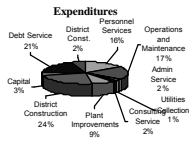
---

---

---

---

## Wastewater Division Expenditures and Receipts




---

---

---

---

---

---

---

---

## Wastewater Collection

### The Wastewater Collection System:

- Approximately 200 miles of sewer lines.
- Goal to thoroughly clean each line every 5 years.
- Lines are televised to determine overall condition and identify potential problems.

### 2001-2002

- Sewer lines cleaned: 32.7 miles
- Sewer lines TV inspected: 2.8 miles
- 6 Emergency Sewer Repairs



Broken Sewer  
to be Repaired

---

---

---

---

---

---

---

---

## Biosolid Injection

- In the spring and fall liquid biosolids are hauled to farm ground.
- The application rate is closely monitored to ensure nutrient requirements of the crop are not exceeded.
- 9 million gallons of liquid biosolids were applied on more than 300 acres of farm ground in the past year.



We will not be doing Biosolid Injection once the Sludge Lagoon is abandoned.

---

---

---

---

---

---

---

---

# Plant Load

- The load on the Plant was up 19 percent over last year.
- Swift Beef Plant and McCain Foods are the primary industrial customers. Nearly 40 percent of the Plant loading comes from these two industries.
- The Treatment Plant processes waste equivalent to a community of 100,000.



Treated Water Leaving the Plant.

---

---

---

---

---

---

---

---

# Solid Waste Division




---

---

---

---

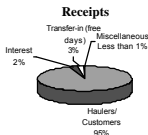
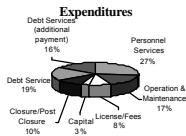
---

---

---

---

# Solid Waste Division Expenditures and Receipts




---

---

---

---

---

---

---

---

## Green Site

A Compost Screener was purchased this year.

- Processes yard waste into compost.

### Benefits:

- Reduce material going to landfill.
- Recycle materials for reuse.
- Provide compost to the public for a small fee.




---

---

---

---

---

---

---

---

## Landfill

The Landfill site was re-permitted by NDEQ, passing a full and complete audit.

The five-year Tier II Analysis for air quality/methane gas was performed.

- All limits were found to be well below checkpoints.
- No methane gas burning or removal is necessary at this time.




---

---

---

---

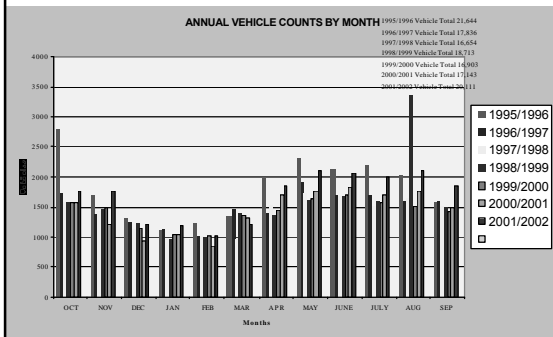
---

---

---

---

## Vehicle Counts By Month




---

---

---

---

---

---

---

---



## Public Works Annual Report 2001-2002

Street and Transportation



Wastewater Treatment



Engineering



Solid Waste



Fleet Services



---

---

---

---

---

---

---