

Environmental Management Corporation

Public Works

*Monthly Operations
and
Maintenance Report*

for

City of Monmouth

January 2010

MAIN WASTEWATER TREATMENT FACILITY OPERATIONS - The Main Wastewater Treatment plant treated and discharged ninety eight million gallons of wastewater during January. Twelve million gallons of wastewater was treated and discharged through the excess flow facilities. One combined sewer overflow event(s) during the month.

Effluent Quality

Parameters	Monthly Average Mg/L	NPDES permit limit Mg/L
Total Suspended Solids (TSS)	9 Mg/L	12
Carbonaceous Biochemical Oxygen Demand (CBOD)	2.5 Mg/L	10
Ammonia Nitrogen (NH3-N)	0.1 Mg/L	1.5
Flow in Million Gallons /Day	3.1 MGD	2.17 MGD ave. 4.2 MGD max.

Climatic Conditions – 2.27 inches of rain and 11.8 inches of snow were recorded for the month of January.

NORTH WASTEWATER TREATMENT FACILITY OPERATIONS - The North Wastewater Treatment plant treated and discharged ten million gallons of wastewater during January.

Effluent Quality

Parameters	Monthly Average Mg/L	NPDES permit limit Mg/L
Total Suspended Solids (TSS)	87 Mg/L	12
Carbonaceous Biochemical Oxygen Demand (CBOD)	26 Mg/L	10
Ammonia Nitrogen (NH3-N)	.1 Mg/L	15
Flow in Million Gallons /Day	.3 MGD	1.33 MGD ave. 1.51 MGD max.

WATER PRODUCTION – Sixty seven million gallons of water were pumped and treated into the distribution system in January. Well activity for the month is summarized as follows:

Parameters	Average
Water pumped	2 MGD
Phosphate addition	75 lbs/day
Chlorine addition	84 lbs/day

WATER DISTRIBUTION - 54 requests for service were responded to during January.

Maintenance & Repair - Repairs to the distribution system were made as follows:

- See attached sheet(s) for corrective work orders for the month.
- Replaced 4 water meters.

Work Order History by Date with WO Notes
01/01/2010 To 01/31/2010

Date Complete	WO#	Equipment	Task Description	Assigned to	Hours	Labor Cost	Inventory Cost	Misc. Cost	Total Cost	Lag Time*
1/2/2010	6890	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: 1100 Blk. South B Street 4X15 clamp 10 tons of rock.			A0010063					
1/4/2010	6912	CM-1 - Customer Water Meters	Corrective		0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter at 222 West Detroit Ave. base number 36388700								
1/4/2010	6905	00 - OVERALL FACILITY-MP	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter 815 West 3rd Ave. base number 36388693								
1/4/2010	6904	CM-1 - Customer Water Meters	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 water meter 813 East 3rd Ave. base number 36388692.								
1/4/2010	6906	CM-1 - Customer Water Meters	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter at 716 North Main base number 36388694								
1/4/2010	6907	CM-1 - Customer Water Meters	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter at 507 North H street base number 36388695								
1/4/2010	6908	CM-1 - Customer Water Meters	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter at 411 East Girard Ave. base number 36388696								
1/4/2010	6909	CM-1 - Customer Water Meters	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter at 601 est Broadway base number 36388697								
1/4/2010	6910	CM-1 - Customer Water Meters	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: Replaced 5/8 meter at 811 West Broadway base number 36388698								
1/4/2010	6911	CM-1 - Customer Water	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0

* Lag Time is defined as the Date Complete - the Date Due

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Date Complete	WO#	Equipment	Task Description	Assigned to	Hours	Labor Cost	Inventory Cost	Misc. Cost	Total Cost	Lag Time*
1/4/2010	6903	00 - OVERALL FACILITY-MP	Corrective		0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: Replaced 5/8 meter at 1023 South B street base number 36388699										
Meters										
1/5/2010	6913	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: 1100 Blk. South 10th 6X15 clamp 10 tons of rock. X0050009										
1/6/2010	6915	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: 100 Blk. South 1st replaced 4" valve and installed a 4" cut in sleeve service line for Monmouth soda Works.										
1/6/2010	6914	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: 100 Blk. South 1st. 4X15 clamp. X0060067										
1/8/2010	6918	PO4 Pumps - Pumps	Corrective		1.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: Installed new tube in phosphate pump at the north plant.										
1/8/2010	6917	CS-1 - Curb Stop Repairs	Corrective		0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: Replaced curb stop at 801 North 1st street we could not repair due to snow we didn't have a crew Tim Heatherly repaired and Sam Mackey dug the hole and Thompson did the trucking. We will need to repair drive this spring.										
1/11/2010	6959	WM-1 - Water Main Repairs	Corrective		6.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: 100 Blk. East 1st Ave. two 4X15 clamps Thompson hauled 15 tons of rock. A0090096										
1/19/2010	6974	00 - OVERALL FACILITY-MP	Corrective		4.50	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: #16 Lincoln homes 6x15 clamp 8 tons of rock. A0170014										
1/20/2010	6975	WM-1 - Water Main Repairs	Corrective		0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Notes: 500 Blk. South 3rd Street 4X20 clamp 8 tons of rock. X0190709										
1/21/2010	6976	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0

* Lag Time is defined as the Date Complete - the Date Due

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Date Complete	WO#	Equipment	Task Description	Assigned to	Hours	Labor Cost	Inventory Cost	Misc. Cost	Total Cost	Lag Time*
1/25/2010	6991	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: South 7th and East 7th two clamps 4X15 clamp and a 4X12 corp clamp 16 tons of rock. A0210227								
1/25/2010	6992	WM-1 - Water Main Repairs	Corrective		0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: 200 Blk. South 1st Street 6X15 clamp 8 tons of rock. A0250130								
1/27/2010	6994	WM-1 - Water Main Repairs	Corrective		5.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: 709 West 6th Ave. two clamps 4X20 and 4X15 16 tons of rock. A0250287								
1/27/2010	6993	WM-1 - Water Main Repairs	Corrective		3.00	\$0.00	\$0.00	\$0.00	\$0.00	0
		Notes: North 6th and Girard 4X12 clamp 25 tons of rock. A0250133								
		Notes: 709 West 6th Ave. 6X20 clamp 16 tons of rock same dig number we used yesterday.								

Summary

Total # of WO's	24	Total Labor Cost	\$0.00
Total Hours	45.50	Total Inventory Cost	\$0.00
Average Lag Time*	0.00	Total Misc Cost	\$0.00
		Total Cost	\$0.00

* Lag Time is defined as the Date Complete - the Date Due

SEWER COLLECTION SYSTEM

Sewer cleaning – General cleaning of street drains.

Maintenance & Repair – Manhole repairs at South 2nd and East 1st, North F St and West Franklin. New culvert across East Jackson Ave. Intake repair at North 9th and East Euclid.

STREET DEPARTMENT

Maintenance & Repair - The following maintenance items were performed during the month of January.

- Crews on job sites due to water / sewer service repairs.
- Street sweeping.
- Snow removal.
- General maintenance.
- Christmas Tree pick-up and removal.

Tree work - Nothing to report in January.

SOLID WASTE - The solid waste department processed a total of 653 cubic yards of refuse for the month.

Type of Refuse	Monthly Total in Cubic Yards
Transfer station	419 cubic yards
Construction/appliance dumpsters	112 cubic yards
Compost/Yard waste Brush/Leaves	122 cubic yards

Fleet Maintenance - Mechanics performed 35 preventative and repair work orders for the City vehicles and equipment fleet during the month. The major items are highlighted below:

- Performed 24 scheduled preventative/maintenance on Public Safety vehicles.
- Replaced front left side bearing assembly on Police Unit 1.
- Replaced steering pump, rack-pinion, coil, battery in Wtr. Dept. car.

MAINTENANCE & REPAIR EXPENDITURES - The Public Works annual maintenance budget is \$301,648.00 and to keep the City abreast of Public Works maintenance costs, the following table summarizes expenditures for the month:

Categories	Expenditures
Street/Vehicle maintenance	\$9,978.09
Solid Waste maintenance	\$581.51
Water Treatment/Distribution maintenance	\$8,166.58
Main Wastewater Treatment Plant/Sewer Collection	\$4,143.26
North Plant maintenance (Farmland Foods responsibility)	\$1,481.94
Total Maintenance Cost (does not include Farmland responsibility)	\$22,869.44
Monthly Maintenance Budget	\$25,137.32
Over (Under) Budget	(\$2,267.88)
Year-to-Date Cost	\$101,471.87
Year-to-Date Budget	\$100,549.28
Over (Under) Budget	\$922.59

Utility Billing
Total Billings for January 2010

Fund	Amount	Penalties
Water	\$119,737.17	
Sewer	\$90,229.79	
Landfill	\$17,690.00	
Recycling	\$7,076.00	
Farmland Water/Sewer	\$61,548.33	
TOTAL	\$316,407.07	\$2,393.78

Total Collection for December Billing 2009

Fund	Amount	Penalties
Water	\$163,593.73	
Sewer	\$127,455.12	
Landfill	\$17,080.37	
Recycling	\$6,812.72	
Garbage	\$27,179.48	
TOTAL	\$342,121.42	\$2,449.02

J.U.L.I.E. LOCATES - Water and Sewer personnel responded to 26 requests for utility locates during January.

If you have any questions about this report, feel free to contact us at 734-4026, drop by the office.