

STORM WATER MANAGEMENT AND EROSION CONTROL IN WEST FARGO

Presented April 16th 2008

ND Water and Pollution Control Conference

Presenter

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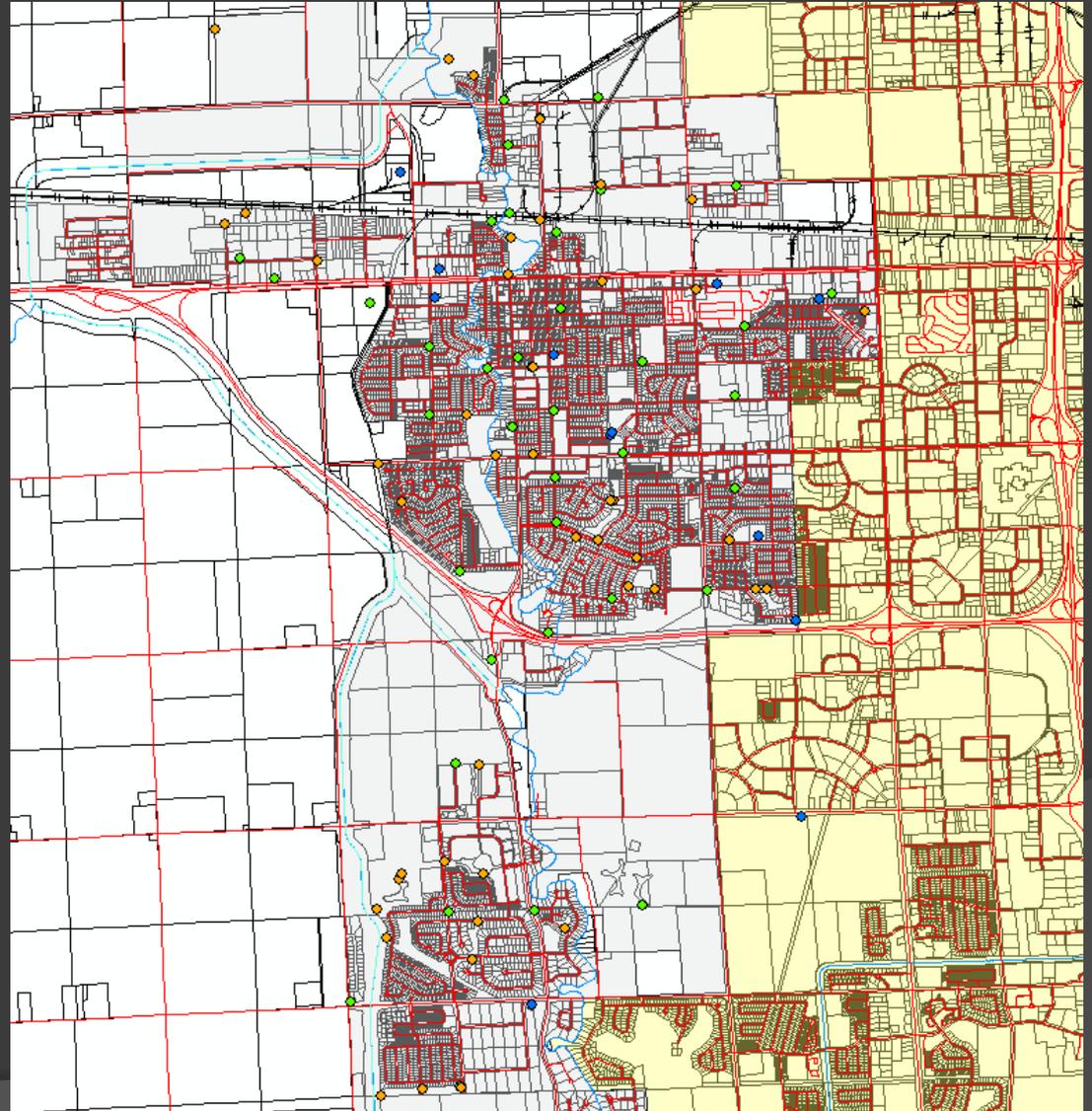
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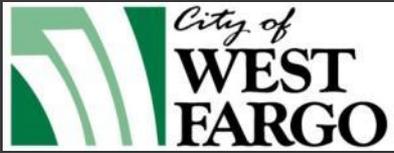
www.westfargond.gov





City Map





City Statistics

- Population of 12,287 in 1990 to a population of 20,790 in 2006
- Projected to near 30,000 in 2015

- West Fargo's current land area is around 7,200 acres
- Around 8,000 households



City Statistics

◎ Phase II Community

➤ At least 10,000 population

➤ MS4 (Municipal Separate Storm Sewer System)

◎ Minimum Control Measures

➤ Public Education and Outreach

➤ Public Participation and Involvement

➤ Illicit Discharge Detection and Elimination

➤ Construction Site Runoff Control

➤ Post-Construction Runoff Control

➤ Pollution Prevention and Good Housekeeping



Topics

- ◉ Storm Water as an Asset
 - Neighborhood Amenity
 - Water Quality Improvements
- ◉ Construction Site Erosion Control
 - Residential Construction



Storm Water as an Asset

Wet Retention Ponds

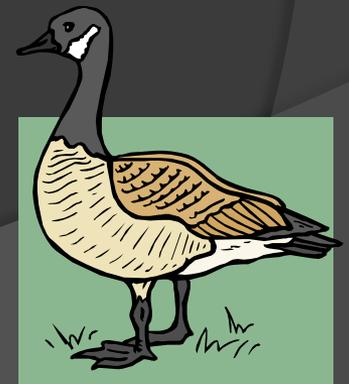
Increased property value

Scenic views

Flood prevention

Wildlife attraction

Green space





Wet Retention Ponds

- People are drawn to water





Wet Retention Ponds



Sheyenne River



Wet Retention Ponds



Charleswood Storm Water Retention



Wet Retention Ponds

Charleswood and Burlington Ponds

- APWA Public Works Project of the Year – 2002
- Interconnected Storm Water Retention System
- Reasons for Project-Recent Severe Flooding
 - NPDES Post-Construction Regs.
- Three wet retention ponds that interconnect through gravity system with pumping stations
- Can backfeed low lake levels from Sheyenne River
- Isolate and Discharge Individually



Wet Retention Ponds



Charleswood Pond



Wet Retention Ponds



Charleswood Pond



Wet Retention Ponds





Wet Retention Ponds



Burlington Pond



Wet Retention Ponds



West Lake Apartment



Wet Retention Ponds

Rendezvous Park





Wet Retention Ponds

Rendezvous Park





Wet Retention Ponds

Rendezvous Park





Wet Retention Ponds

Rendezvous Park





Wet Retention Ponds

Other Ponds



Goldenwood Development



Wet Retention Ponds

Other Ponds



Westport Beach





Dry Retention Ponds

West River





Wet Retention Ponds

- 12 Wet Retention Ponds Total
(Coming Soon Shadowood)
- 8 Dry Retention Ponds
- Water Quality, Quality, Quality



Wet Retention Ponds

Water Quality





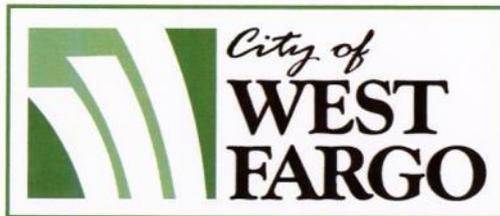
Construction Runoff

Update 2008

- Construction Standards (New)
- Compliance Calendar
- Inspections/Regulation

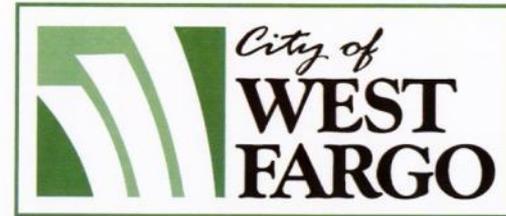


Construction Runoff



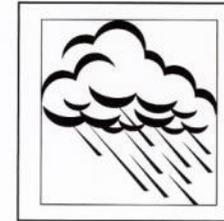
Storm Water Management Standards for Single or Two Family Residential Construction

Updated 2008



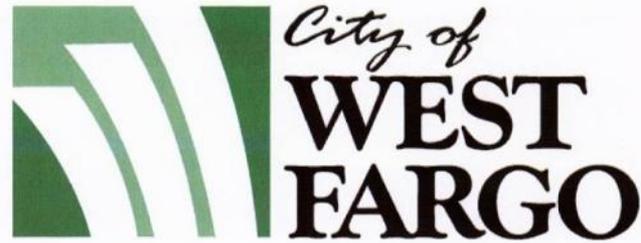
Storm Water Management Standards for Commercial and Large Scale Residential Construction

Updated 2008





Construction Runoff



STORMWATER COMPLIANCE CALENDAR

2008

City of West Fargo Public Works Department
810 12th Ave NW, West Fargo ND 58078
Phone: 701-433-5400 Fax: 701-433-5419



Construction Runoff



The City of West Fargo
Storm Water Management Permit



General Information

Site Address:		Acres:
Start Date:	Completion Date:	Phone:
Owner/General Contractor:		Fax:
Mailing Address:		

Permit Information

New Single Family / Two Family Residential
 Type A Type B Other: _____

New Multi-Unit Residential * (Plans & SWPPP to be approved by City of West Fargo)

Commercial * (Plans & SWPPP to be approved by City of West Fargo)

Infrastructure * (Includes: Streets, Sewer, Water, Sidewalks, Utility, Etc...)

Other: _____

*SWPPP(Storm Water Pollution Prevention Plan) MUST include erosion/sediment control plan & site map

Building Permit Number _____ NDPDES Permit Number: _____

I hereby certify that I have received and reviewed a copy of the Storm Water Management Standards for the City of West Fargo and I am responsible for implementing, maintaining, and monitoring the effectiveness of the storm water management standards during construction on the lots listed above. I also understand that I may need to supplement or modify implemented protection measures as site conditions develop to control on-site erosion and ensure all site runoff is adequately treated by storm water controls. I will also be responsible for the actions of all subcontractors and delivery personnel at the worksite.

Owner / Contractor Signature _____ Date _____

Printed Name _____ Phone _____

City Use Only

Permit Number:	Date Issued:	Date Expired:
Fee: _____ <input type="checkbox"/> Paid # _____ <small>Permit Fee Schedule 0 - 3 acres \$15 with a \$5 per acre additional fee for those over 3 acres. All acreage rounded UP to nearest acre. 1 Acre = 43,560 Square Feet.</small>	Approved By: _____	
SWPPP Approval Number: _____		



Construction Runoff





Construction Runoff





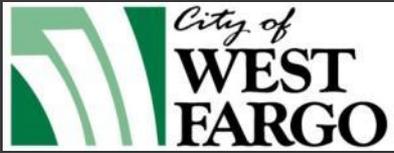
Construction Runoff





Construction Runoff





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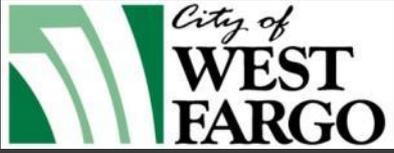
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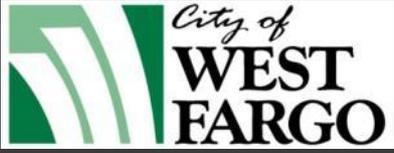
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● Any Questions?

Contact

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