COMBINED SEWER OVERFLOW OPERATION & MAINTENANCE PLAN

SEPTEMBER 2007

VILLAGE OF NORTH RIVERSIDE, ILLINOIS
NPDES PERMIT #ILM580030

#03058 - Revised

COMBINED SEWER OVERFLOW
OPERATION AND MAINTENANCE PLAN

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CHAPTER 1
PLAN OBJECTIVES

This plan as developed in compliance with the requirements of the Village's National Pollutant Discharge Elimination System (NPDES) Combined Sewer Overflow (CSO) General Permit No. ILM580030. The primary objective of this plan is to provide a program for effectively improving the Village's combined sewer overflow management. More specifically, the plan has been developed to comply with the following five requirements of the NPDES CSO permit:

1. Collection system inspection on a regular scheduled basis.

2. Sewer, catch basin, manhole, and regulator cleaning and maintenance on a regular scheduled basis.

3. Collections system replacement, where necessary.

4. Detection and elimination of illegal connections.

5. Detection, prevention, and elimination of dry weather overflows.

CHAPTER 2
COMBINED SEWER OVERFLOW INVENTORY

A. GENERAL INFORMATION

The Village of North Riverside lies entirely within the Des Plaines River watershed. The area is relatively flat.

The entire Village falls within the service area of the Metropolitan Water Reclamation District of Greater Chicago (MWRD). The combined sewers of the Village drain to MWRD interceptor sewers and then on to MWRD wastewater plants for treatment.

The Village of North Riverside has a system of storm and combined sewers having a total length of 113,385 feet or 21.474 miles. Ninety-seven percent (97%) of these sewers are combined sewers and range in size from eight inch (8") to sixty inch (60"), inclusive. The total length of combined sewers is 109,825 and the total length of storm sewers is 3,560 feet. There are no bottlenecks on the combined sewer system.

The length of various sizes of all combined sewers are tabulated as follows:

8"	1,370	Feet
10"	590	Feet
12"	47,280	Feet
15"	15,670	Feet
18"	15,230	Feet
21"	8,665	Feet
24"	9,440	Feet
27"	680	Feet
30"	2,700	Feet
33"	580	Feet
36"	1,150	Feet
39"	840	Feet
42"	2,190	Feet
45"	670	Feet
48"	2,780	Feet
54"	3,820	Feet
60"	1,170	Feet

All sewers on the North Riverside System are gravity sewers from the high point of each sewer line to the outfall at the MWRD interceptor. All sewers are in good condition and range in age from 17 to 80 years old.

There are a total of 489 manholes on the entire sewer system. In addition, there are various catch basins and inlets that drain the pavement and connect to the storm and combined sewer systems.

B. DESCRIPTION OF CSO SYSTEMS

All sewerage from the combined sewers are tributary to the Metropolitan Water Reclamation District of Greater Chicago interceptor sewers, Tunnel and Reservoir Plan (TARP) and treatment plant.

The Village has a total of three (3) sewer connections, to two MWRD interceptors, two of which have combined sewer overflows into the Des Plaines River.

The two (2) connections to the deep tunnel are intercepted by by-pass chambers under the jurisdiction of the MWRDGC. The gravity system operates such that all dry weather flows are naturally tributary to the MWRD interceptors. When storm water enters the system and exceeds a pre-determined capacity for the MWRD interceptor, a signal is transmitted to MWRD's monitoring facility operation station and they, in turn, activate a control to allow the combined effluent to enter the deep tunnel. If the deep tunnel is filled beyond a certain capacity, these tunnel connections are closed and the combined effluent again discharges into the Des Plaines River. The Village has no control over any of these operations.

See Table 2B-1 for CSO locations, tributary drainage areas, populations, latitudes, longitudes, and other technical data on each overflow.

CSO-001 includes a combined sewer tributary area of 329 acres, and a land use consisting of 78% residential, 21% commercial and 1% school.

CSO-002 includes a combined sewer tributary area of 250 acres, and a land use consisting of 85% residential, 7% commercial and 8% open space.

C. SENSITIVE AREAS

Neither CSO outfalls discharge to sensitive areas, such as wetlands or beaches. The Des Plaines River does not provide drinking water for any neighboring communities. No boating activity or other primary contact activities occur in the Des Plaines River within North Riverside. This is primarily due to inadequate water depth, physical obstacles such as logs, debris and bridge piers and the fact that the entire shoreline is adjacent to Cook County Forest Preserve and golf course property with no beaches, swimming areas or boat landings.

TABLE 2B-1

CSO #	Location	Latitude	Longitude	Drainage Area (Sq. Yd.)	Population	Avg. Dry Weather Flow Rate (MGD)	"First Flush" Flow Rate (MGD)	Upstream Capacity (MGD)	Connection to MWRDGC Interceptor	Connection to TARP	Overflow Connection to Des Plaines River	Flow Monitored By MWRD
001	West Side of Des Plaines River @ 26th Street	41° 50' 33"	87° 49' 17"	0.514	3,550	1.3*	13**	26***	Yes	Yes	Yes	Yes
002	East Side of Des Plaines River @ 26th Street	41° 50' 33"	87° 49' 53"	0.391	2,550	0.9*	9**	26***	Yes	Yes	Yes	Yes
					6,100 (Total)							

* Assumed usage 300 GPD/c for residential; 2,000 GPD/Ac. for commercial; and a ground infiltration rate of 500 GPD/mi-in.

** Assumed value calculated at 10 times dry-weather flow.

*** Assumed full pipe flow value @ 2.0 Ft./Sec. velocity.

CHAPTER 3
COMBINED SEWER OPERATION

The goal is to establish continuous and preventative procedures for the proper operation and maintenance of the Village's combined sewer system during dry and wet weather flows. This program aims to ensure a proper, satisfactory and safe state of repair for the Village's combined sewer system. The purpose of the maintenance is to reduce excessive inflow and/or infiltration in the system, to prevent basement sewer backups, adverse surcharging of the manholes, reduction of solids during "first flush" conditions and discharge at overflows/outfalls.

A. INVENTORY

The Village sewer map will be updated continuously and the latest version will be available to Village staff at all times. In addition, updated paper copies will be distributed to field personnel annually.

B. INSPECTION

Any special appurtenances in the sewer system, including the combined sewer overflows, will be inspected periodically on a schedule established by the Director of Public Works.

Manholes: All manholes will be inspected on an ongoing basis. Every manhole will be inspected for the following, and the results of the inspection will be noted for the necessary repair work, if any. As far as practicable, the inspections should be scheduled in the periods of high ground water.

1. **Inflow through the lid:** Whether the manhole is located where storm runoff could accumulate around and over the lid, and enter the manhole through pick/vent holes, or through the space between the lid and the frame. This could be remedied by installation of a gasket seal cover or solid watertight cover with concealed pick holes.

2. **Frame Seal:** The manhole frame should be sealed watertight with the cone or adjustment rings. If signs of water leakage are noted, the frame should be removed and resealed.

3. **Adjustment Rings**: The existing adjustment rings between the frame and cone will be inspected for water tightness. If a leak(s) is observed, the frame and the rings should be removed and resealed. Any brick/block adjustment rings should be removed and replaced with precast concrete rings.

4. **Manhole Walls:** To be inspected for signs of leaks. Leaking walls may be repaired by chemical grout sealing, poured-in-place concrete liners or grouting may be considered for brick/block manholes with multiple defects.

5. **Manhole Base and Pipe Invert(s):** To be inspected for signs of leaks. Chemical grouting is the most likely repair method.

6. **Bench:** To be inspected for erosion of the bench. Eroded benches should be repaired by an appropriate method, ranging from application of mortar of an appropriate type to repour of the bench.

7. **Steps:** To be inspected for leaks at the holes the steps are grouted into, and the condition of the step itself. Possible repair methods include regrouting and/or replacement of the step.

Sewers: All sewer opening(s) in a manhole shall be visually inspected using a high intensity lamp and a mirror, to the extent visible from the manhole for the signs of obstructions, roots, sediment deposits and other defects.

Sewer reaches are televised in conjunction with ongoing paving and water main improvements. Copies of all videotapes, CDs' and DVDs' of televised sewers are retained by the Village.

Creek and Outfall Structures: All creeks and outfall structures shall be inspected twice annually and be cleaned or repaired as necessary.

Flow Monitoring: If visual or other inspections indicate possible excess flow problems in certain subsystems, flow monitoring should be performed at key manholes. Smoke testing, dye testing and excavations may be required in some subsystems where complaints or backup causes are difficult to locate.

Building Inspections: If other inspections indicate that the increased flow may be a source of inflow/infiltration (I/I) located on private property, an inspection of such property, including any building(s) on it, will be conducted,

Maintenance staff, meter readers, and building inspectors will be familiarized with the sewer use ordinance so that unauthorized connections to the sewer can be identified and disconnected. Also, they will ensure that these connections are not reconnected later.

Rehabilitation and Maintenance Work: The rehabilitation work determined necessary to be done, as a result of the inspections described above, will be scheduled as soon as possible. Contemporary and modern methods suitable for such repairs will be used. When necessary, an outside contractor will be used to make the appropriate repairs.

C. MAINTENANCE

Catch Basin Cleaning: This procedure is performed using a vactor-type machine. The operation occurs on an approximate five-year cycle between March 15th and November 1st, or more often as necessary. The material removed during the cleaning process is properly disposed of offsite.

Procedure for Catch Basin Cleaning:

1. Arrive at location with vactor truck. Remove cover and position the suction tube to proper angle.

2. Hook up suction tube to hose.

3. Lower tube, suck out debris and mud. High-pressure water nozzle is used to loosen debris.

4. After cleaning, inspect structure and sewer for any repairs that may be necessary.

Sewer Flushing and Root Cutting: Jetting and/or root cutting is performed on all sewers on an approximate five-year cycle. Sewers with a history of problems are serviced more frequently as necessary. The material removed during the sewer flushing process is properly disposed of offsite.

Procedure for Root Cuffing:

1. Arrive at location with jet truck.
2. Attach proper size root cutter to jet hose, i.e. for a 10" sewer line use 10" root cutter.
3. Root cutting proceeds from manhole to manhole. Maximum length of 600'.
4. Debris and roots are pulled backed to the point of entry manhole.
5. After completion of process, inspect structure and sewer for any repairs that may be necessary.

Procedure for Sewer Flushing:

1. Arrive at location with jet truck.
2. Attach proper jetting head to jet hose.
3. Insert jet hose into sewer.
4. Jet sewer using water under high pressure to remove any blockages and clean line.
5. Inspect structure and sewer for any repairs that may be necessary.

Street Sweeping: To reduce litter and other materials from streets and curbsides, the Village of North Riverside maintains a street sweeping program that sweeps all streets once a week, including streets in the business district. Street sweeping does not occur during below freezing temperatures. The material removed during the street sweeping operation is properly disposed of offsite.

D. RECORD KEEPING

The Director of Public Works will maintain the dated records for a minimum of five years. Records shall be kept regarding collapsed and blocked sewers, basement backups, street flooding, collection system complaints, inspection logs, and excess flow levels at combined sewer overflows. Said records will be in such a format that can be easily accessed for reference or review. The data collected will form the basis of projecting a sequence of future maintenance work.

CHAPTER 4
COMBINED SEWER IMPROVEMENTS

A. CAPITAL IMPROVEMENTS

The Village's Annual Resurfacing Program includes replacing, reconstructing or adjusting any and all manholes, catch basins and inlets. Defective components are replaced with new precast concrete components.

B. ADMINISTRATIVE PROCEDURES FOR NEW DEVELOPMENT

The Village of North Riverside will not issue a building permit until approval is granted by the MWRDGC for compliance with its Sewer Permit Ordinance. In addition, the Village has updated its Building Code to include the following four requirements of the NPDES CSO general permit:

1. Prohibit introduction of new inflow sources to a sanitary sewer.
2. Require that new construction tributary to the combined sewer system to be designed to minimize and/or delay inflow contribution to the combined sewer system.
3. Require that inflow sources on the combined sewer system be connected to a storm sewer, within a reasonable period of time, if a storm sewer becomes available.
4. Provide that any new building domestic waste connection shall be distinct from the building inflow connection, to facilitate disconnection if a storm sewer becomes available.

CHAPTER 5
OTHER CSO PERMIT EFFORTS

Pursuant to the NPDES CSO Permit Requirements, the Village of North Riverside is also responsible for reporting of any wet or dry weather overflow discharges, public notification of any discharges, and creation of a Pollution Prevention Plan.

A. DISCHARGE MONITORING

The MWRDGC has continuous read flow monitors at the following CSO locations:

001 West side of Des Plaines River at 26th Street

002 East side of Des Plaines River at 26th Street

The monitors send a radio signal to MWRDGC operations headquarters, where the data is used to limit CSO event impact.

B. PUBLIC NOTIFICATION PROGRAM

The MWRD has created a public notification plan that involves signage at the CSO locations and website notification of any wet weather or dry, weather overflows, based upon their telemetry flow monitoring data. The Village has proposed to partner with the MWRD in their public notification program.

C. POLLUTION PREVENTION PLAN

As required by the CSO Permit, the Village has created an independent Pollution Prevention Plan. The plan complements, and in some areas is repetitive of this Operational and Maintenance Plan and the Village's NPDES Phase II Plan.

APPENDIX A

CSO OPERATION PLAN CHECKLIST AND CERTIFICATION

CSO OPERATIONAL PLAN CHECKLIST AND CERTIFICATION

(To be Completed by Permittee)

Facility Name NORTH RIVERSIDE **NPDES No.** IL M580030

Section I. *The following information should be included in the CSO Operational Plan.*

General Information

	Included Yes	No	N/A	Administrative Acceptance
Describe the collection system including all outfalls and overflows, control (diversion) structures, treatment facilities, pumping stations, and associated capacities	☒	☐	☐	☐
Describe the relationship to other collection entities, esp. other CSO collection entities	☒	☐	☐	☐
Has the Illinois Pollution Control Board issued any orders, currently in effect, regarding any of these outfalls? If yes, include a copy of the Board Order with the Plan	☐	☒	☐	☐
Are any of these outfalls to sensitive areas (designated Outstanding National Resource Waters, National Marine Sanctuaries, bathing beaches, shellfish beds, waters with threatened or endangered species and their habitat, contact recreation, or drinking water intakes)? If yes, explain as indicated at the end of Section II	☒	☐	☐	☐
Describe efforts undertaken to minimize the discharge of pollutants from all CSO outfalls	☒	☐	☐	☐
Describe efforts undertaken to maximize storage of pollutants in the collection system	☒	☐	☐	☐
Describe the pollution prevention aspects of this Operational Plan	☒	☐	☐	☐
Describe efforts to monitor CSO impacts and the efficacy of CSO controls	☒	☐	☐	☐
Describe the public notification program for CSO occurrences and impacts.	☒	☐	☐	☐
Latitude and longitude information given for each outfall	☒	☐	☐	☐

Maintenance

Schedule for regular street cleaning in combined sewer areas	☒	☐	☐	☐
Added emphasis for leaf removal	☒	☐	☐	☐
Schedule for catch basin cleaning	☒	☐	☐	☐
Schedule for routine cleaning of trunk and interceptor sewers	☒	☐	☐	☐
Stop planks at highest level practical without causing basement backups or excessive street flooding	☐	☐	☒	☐
Date system stop planks last adjusted _____ (month) (day) (year)	☐	☐	☒	☐
Describe your procedures for:				
Cleaning screening equipment after and, if necessary, during each storm	☐	☐	☒	☐
Regulating diversion and bypass valves	☐	☐	☒	☐
Reducing solids deposition in the combined sewer system	☒	☐	☐	☐

Inspections and Monitoring

Schedule to inspect regulator and diversion structures included	☐	☐	☒	☐
Routine pump/lift station inspection and preventive maintenance discussed	☐	☐	☒	☐
Schedule to inspect manholes and sewers (e.g., televise, etc.) included	☒	☐	☐	☐
Schedule to inspect surface water anti-intrusion devices (e.g., flapgates, etc.)	☐	☐	☒	☐
Describe your procedures for finding and eliminating illegal sewer connections	☒	☐	☐	☐
Describe your procedures for finding and eliminating dry-weather overflows	☒	☐	☐	☐

Section II. *Information in the following section should be included in the Plan and kept on file by the permittee. This information will be verified by IEPA during a facility inspection. The* ***submission of the information in Section II to the Agency should only be done when requested. DO NOT SUBMIT THE INFORMATION REQUESTED IN THE FOLLOWING SECTION WITH THE CSO OPERATIONAL PLAN.***

Maps and Diagrams

	Included Yes	No	N/A	IEPA Field Verification
Sewer system map included	☒	☐	☐	☐
Combined sewers and sanitary sewers tributary to combined sewers marked	☒	☐	☐	☐
Storm sewers using combined sewers as a transport link marked	☒	☐	☐	☐
All major interceptors and trunk sewers marked	☒	☐	☐	☐
Sewer sizes, slope, and material indicated	☐	☒	☐	☐
Manholes and catch basins identified	☒	☐	☐	☐
All CSOs, treatment plant bypasses, outfalls, and their receiving waters identified	☒	☐	☐	☐
All control (diversion) structures, including valves, marked	☐	☐	☒	☐
All pump and lift stations and their capacities marked	☐	☐	☒	☐
Diagram of CSO Treatment Facilities	☐	☐	☒	☐
All unit processes and associated capacities identified	☐	☐	☒	☐

CSO OPERATIONAL PLAN CHECKLIST AND CERTIFICATION (CONT'D)

(To be Completed by Permittee)

Section II. (cont'd)

Sewer System Characterization

	Included Yes	No	N/A	IEPA Field Verification
Drainage area and population tributary to each overflow indicated	☒	☐	☐	☐
Sewer capacity immediately upstream and downstream of each overflow indicated	☐	☒	☐	☐
Description of structural and physical condition of sewer system	☒	☐	☐	☐
Age of system included	☒	☐	☐	☐
Bottlenecks in the system included	☒	☐	☐	☐
Average dry weather flow rate through sewer at each overflow (diversion structure)	☒	☐	☐	☐
Year last monitored	☒	☐	☐	☐
Land use and zoning classification in the vicinity of each overflow indicated	☒	☐	☐	☐
Projected growth tributary to each overflow indicated	☒	☐	☐	☐
List of non-residential sewer users tributary to each overflow	☐	☒	☐	☐
Dischargers of toxics indicated	☐	☒	☐	☐
Dischargers of high strength wastewater indicated	☐	☒	☐	☐
High-volume dischargers indicated	☐	☒	☐	☐
Percent pervious area developed and kept current for each sewerage basin	☐	☒	☐	☐

Record Keeping

Logs should be maintained on the following subjects:				
Collapsed and blocked sewers	☒	☐	☐	☐
Basement backups, street flooding, and other collection system complaints	☒	☐	☐	☐
Regulator and diversion structure inspections	☐	☐	☒	☐
CSO and excess flow retention basin levels	☐	☐	☒	☐

Explain all 'No' and 'N/A' (and 'Yes' for the question on sensitive areas) on a separate sheet and attach.

I attest that this form has been completed by me or by others under my direct supervision and that the information contained herein is, to the best of my knowledge, true and complete.

(Signature)	(Title)	(Date)
	Village Administrator	11/19/07

NOTE: Signature should be authorized according to 35 Ill. Adm. Code 309.103(e).

Contact Person: Mr. Guy Belmonte Title: Village Administrator

Address: Village of North Riverside Phone: (708) 447-4211

2401 S. Des Plaines Avenue

North Riverside, IL 60546

SPACE BELOW RESERVED FOR IEPA USE ONLY

ADMINISTRATIVE REVIEW		FIELD VERIFICATION	
(Signature)	(Date)	(Signature)	(Date)

IL 532-2544
WPC 681 Rev. 1/2004

Information required by this form must be provided to comply with 415 ILCS 5/39 (1994). Failure to so provide may result in penalties of up to $10,000. This form has been approved by the Forms Management Center.

VILLAGE OF NORTH RIVERSIDE
CSO OPERATIONAL PLAN CHECKLIST AND CERTIFICATION
EXPLANATION OF ITEMS NOT INCLUDED

GENERAL INFORMATION:

Are any of these outfalls to sensitive areas (designated Outstanding National Resource Waters, National Marine Sanctuaries, bathing beaches, shellfish beds, waters with threatened or endangered species and their habitat, contact recreation, or drinking water intakes)? If yes, explain as indicated at the end of Section II:

Yes – Although by nature of the "General Permit" all waters are considered to be "sensitive". Neither outfall discharges to wetlands or beaches (See Chapter 2, Section C on Page 3 for more information).

MAINTENANCE:

Stop Planks at Highest Level Practical Without Causing Basement Backups or Excessive Street Flooding:

Not Applicable – The intercepting structures upstream of the CSO's are under MWRDGC's jurisdiction. The Village does not have access to these structures or records of their adjustments.

Date System Stop Planks Last Adjusted:

Not Applicable - The intercepting structures upstream of the CSO's are under MWRDGC's jurisdiction. The Village does not have access to these structures or records of their adjustments.

Describe Your Procedure For Cleaning Screening Equipment After And If Necessary During Each Storm:

Not Applicable – As stated above, the intercepting structures are under MWRDGC's jurisdiction. Therefore, the Village does not have access to any screening equipment, and cannot be responsible for their cleaning. The Village does perform street sweeping and regular inspections and cleanings of manholes, catch basins and sewer lines as detailed in the plan.

Describe Your Procedure For Regulating Diversion And Bypass Valves:

Not Applicable – The Village does not operate or regulate any diversion structures or bypass valves on the combined sewer system.

INSPECTIONS AND MONITORING:

Schedule to Inspect Regulator and Diversion Structures Included:

Not Applicable – The Village does not own or operate any regulator or diversion structures on the combined sewer system.

Routine Pump/Lift Station Inspection and Preventative Maintenance Discussed:

Not Applicable – The Village does not own or operate any pump or lift stations on the combined sewer system.

Schedule To Inspect Surface Water Anti-Intrusion Devices:

Not Applicable – As stated above, the intercepting structures are under MWRDGC's jurisdiction. Therefore, the Village does not operate an anti-intrusion device. The Village does, however, periodically inspect MWRDGC's anti-intrusion device and reports any corrections needed to the District.

MAPS AND DIAGRAMS:

Sewer Sizes, Slope and Material Indicated:

No – The Village sewer map indicates sewer sizes, but does not show slope or materials. The Village has records on the sewer materials, but it is not feasible to produce a listing of pipe materials and scopes at this time.

All Control (Diversion) Structures, Including Valves, Marked:

Not Applicable – The Village does not operate or regulate any diversion structures or bypass valves on the combined sewer system.

All Pump And Lift Stations And Their Capacities Marked:

Not Applicable – The Village does not own or operate any pump or lift stations on the combined sewer system.

Diagrams Of CSO Treatment Facilities:

Not Applicable – The Village does not own or operate any CSO treatment facilities. All of the Village's sewers are tributary to the MWRD interceptor sewers and treatment facilities.

All Unit Processes And Associated Capacities Identified:

Not Applicable – As stated above, the Village does not own or operate any CSO treatment facilities.

SEWER SYSTEM CHARACTERIZATION;

Sewer Capacity Immediately Upstream And Downstream Of Each Overflow Indicated:

No – The Village has calculated and indicated an upstream pipe capacity for each CSO, but the Village has no information on the downstream capacity since it is under MWRDGC's jurisdiction.

List Of Non-Residential Sewer Users Tributary To Each Overflow:

No – The Village does not maintain a list of non-residential sewer users tributary to each overflow; however, they have calculated from the Zoning Map a percentage of residential area to determine a population tributary to each CSO.

Discharges Of Toxics Indicated:

No – The Village does not maintain a list of discharges of toxics tributary to each overflow.

Discharges Of High Strength Wastewater Indicated:

No – The Village does not maintain a list of high strength wastewater tributary to each overflow.

High Volume Dischargers Indicated:

No – The Village does not maintain a list of high-volume dischargers tributary to each overflow.

Percent Pervious Area Developed And Kept Current For Each Sewerage Basin:

No – The Village does not maintain a listing of percent pervious area developed for each drainage basin.

RECORD KEEPING:

Regulator And Diversion Structure Inspections:

Not Applicable – The Village does not own or operate any regulator or diversion structures on the combined sewer system.

CSO And Excess Flow Retention Basin Levels:

Not Applicable – The Village does not operate excess flow retention basin.