



TOWN OF EXETER, NEW HAMPSHIRE

10 FRONT STREET • EXETER, NH • 03833-3792 • (603) 778-0591 • FAX 772-4709

www.town.exeter.nh.us

January 31, 2013

Ms. Joy Hilton
Water Technical Unit
USEPA, OES4-3
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Subject: Cover Letter & Summary for **2012 Annual CMOM Report**; NPDES# 0100871; AO docket# 10-024

Dear Ms. Hilton:

The **Annual CMOM Report** was sent by FedEx to both yourself and Tracy Wood/NHDES-WWEB, on Thursday, January 31st, 2013, due to you offices this same date. This letter covers the more salient points and core issues.

- There were **three (3) minor SSO events**, two due to grease/solids and one due to poor design off sewer pipe junction. For the grease clogs these sites will be added to "High Maintenance" area repeat cleaning to be done quarterly or twice annually. An upstream large in-ground grease interceptor has been cleaned and repairs made. The poor existing sewer junction will be resolved by a small CIP project that adds 40 feet of new pipe to allow a better entry angle to another downstream sewer man hole (SMH).
- The **one CSO (Spring Street)** is believed to actually have been a "reverse flow" from Clemson Pont to the structure. The Squamscott River was at high tide during a 2.44" rain event and covered the adjacent parkway. Coliform counts were zero and floating ice & snow floated to the outlet rather than away. A level sensor for the Spring Street CSO outlet line has since been installed so as to prove and measure infiltration *in* to the outlet which would add flow to the main station on Water Street.
- **Webster Avenue Lift Station**, in 2012, a **second unit of 3 pumps was rebuilt**, last 3rd one to be rebuilt in 2013.



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- Large sewer CIP project, 2012, was the completed **277 Water St. interceptor Project** at \$633,029 of cost. A **12" VCP sewer was upgraded to new 24" PVC**; a significant SSO and CSO reduction improvement action.
- Nearly complete is the 2012/2013, **Jady Hill Utilities project**, Phase I (completed) and Phase II, **replaced bad lines & manholes, new sanitary service connections and a new "relief drain" system** to receive sump pumps and other inflows removed from the sanitary sewer. June 1, 2013 anticipated full completion, total contract(s) cost of \$2,756,240.
- **River Bend Circle lift station**, One of three small lift stations lacking back-up power has received a **station back-up generator** ready for February or March installation.
- **2012 Rehabilitation (sealing) on three SMHs** on Water Street resulted in an estimated 9,500 gpd of infiltration removed; a SSO and CSO reduction improvement.
- A **waste reduction project** for the Town's surface water treatment plant (SWTP) began in late 2012 and will be completed in 2013-cost \$284,625. **This will reduce total waste flows to the sanitary sewer by 50% daily and reduce instantaneous floit wws by 75%**; a SSO and CSO reduction improvement.
- **Portsmouth Avenue Sewer Project at \$940.000** (Proposed for 2013) **replaces 2,800' of failing condition 5, 8"VCP sewer**; 570' has high infiltration; a significant SSO and CSO reduction improvement action.
- **Colcord Pond Lift Station**, a 2013 RFP will soon be released for a back-up generator, there will then remain one last lift station (Folsom Acres) to receive a generator in 2014.

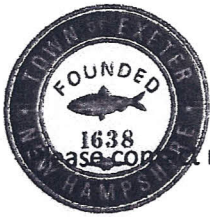


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- **Update & Revised Sewer Use Ordinances**, a new 47 page version replaces the old 13 page document. As requested a copy has been attached to the 2012 annual CMOM report.
- **Evaluations of SSOs in Fox Chapel Court area**: This area was nearly (lacked 200') fully CCTV inspected as is in a section of the 2.18 miles of eastern ROW, could clean only .70 miles. ROW requires culverts and roads, is not directly accessible. SSOs apparently due in great part to this 15" sewer joining with the 10" Court St. pump station FM in same manhole (#244), causing a hydraulic restriction which surcharges back to Fox Chapel Court. This line has a "flat" slope. The W&S department is experimenting with using an alternate existing 6" FM that discharges downstream of the constrictive manhole. Overall reduction of I&I on sewers flowing to the 15" ROW would help as well. Also, I&I conditions and private poor pump stations on Linden St. are in the process of being improved (that flow to the Court St. pump station). Access to the ROW is an issue due to wetlands and the Morrisette Conservation Lands-negotiations in progress.
- **Evaluation of SSOs in the Linden St. area**: About 1,171' of 8" sewers were found to have 3" of sand & gravel sediment in sewer line just downstream of the 5 SMHs historically having SSOs. Most removed (jet cleaned) and this is believed to 1 of 2 major causes of the previous SSOs. The second is a lack of back-up generators on 8 of the 9 privately owned lift stations. The owners are in the process of seeking financing. Also, low elevation wet well covers and a 4" pipe in a wetlands area allowed infiltration.
- **FOG control Program Improvements**: W&S staff received much training and developed SOPs and detailed check list pertaining to grease interceptors. NHDES (Ray Gordon) and the NH State Plumbing Board were on site to review and assist several times.
- **Selectmen Evaluation of Policies for the removal of private I&I**: The Board considers this an element of the LTCP and will make decisions by March 15th, 2013. A copy of a memo outlining options (per Board request) is included in the 2012 Annual CMOM Report.
- **Miscellaneous**: A 10 page report containing the classifications (1=perfect, 5=failing) of the ~10 miles of sewer inspected during 2012 was included with summaries. Print outs from our asset management & maintenance software were included. These few sample pages listed the streets cleaned quarterly/2X year as known "high maintenance areas" for 2012 and the new list for 2013 that has been reduced due to CIP infrastructure improvements. Maps and GIS printouts were inserted following the various narratives. A copy of the proposed FY13 sewage collection budget (SC) was included as well.



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or comments
me should you have any questions or comments www.town.exeter.nh.us

Sincerely,

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Cc: Russ Dean, Town Manager
Jennifer Perry, Public Works Director
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