

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

Approved with Changes 08-06-15

MINUTES

INFRASTRUCTURE COMMITTEE

June 4, 2015 7:00 P.M.

1. **Call to Order, Roll Call, and Establishment of a Quorum.** Chairman Beifuss called the meeting to order at 7:00 P.M. Roll call found Aldermen James Beifuss, Mark Edwalds, Al Hallett, John Smith and Noreen Ligino-Kubinski present. Aldermen Sandra Dimas and Don Earley were absent.

Staff present included Director of Public Works Robert Flatter, Water Treatment Plant Superintendent Joseph Munder and Executive Secretary Michelle Baldino.

Others in attendance were Kendall Coleman, Brent Lautenbach and Adam Federau from CH2M Hill/OMI, Chris Ulm of Strand Associates, Inc., and resident Marilyn Kroll.

2. Approval of Minutes

A. **Infrastructure Committee Minutes of May 7, 2015.** Alderman Hallett made a motion, seconded by Alderman Ligino-Kubinski to approve the Meeting Minutes of May 7, 2015. Voting Yea: Aldermen Hallett, Ligino-Kubinski, Beifuss, Edwalds, and Smith. Voting Nay: 0.

3. Public Participation / Presentations.

A. **Wastewater/Pretreatment Program Presentation and Discussion.** Mr. Flatter introduced the gentlemen present from CH2M Hill/OMI. He informed Committee that Adam Federau, Pretreatment Coordinator, has prepared a presentation on what pretreatment actually means and why it is so important. The presentation is attached as Exhibit A. Mr. Federau especially expressed the need for a city-wide survey to determine impacts on any and all industrial pollutants that may be entering into the City's Wastewater Treatment Plant. Mr. Flatter stated that Jel-Sert is one of the industries with cause for concern as they routinely exceed permit limits and have been issued numerous violation notices. Jel Sert has recently made plant improvements to come into compliance with the program.

B. Resident Marilyn Kroll was in attendance and asked Committee why the Committee chose to have it's meeting in the Committee Room instead of the Council Chambers. Chairman Beifuss asked that she refrain from asking questions but only provide comments. She stated that she hears often when she has certain questions that pertain to part-time clerical positions with the City, "that it's not in the budget". She asked several other questions pertaining to City's fleet

and also requested a larger fountain downtown and a bench in front of City Hall. Chairman Beifuss suggested to Ms. Kroll that she call the City staff for the answers to all of her questions.

4. Items for Consent. Chairman Beifuss read the items for consent. Alderman Edwalds asked for discussion on item 4.D. **Alderman Smith made a motion, seconded by Alderman Edwalds to approve:**

A. Resolution No. 15-R-0031 – Contract Award – Layne Christensen Company, Inc., for Services Related to the Removal, Inspection, Repair, Installation, and Testing of the Well Assembly at the City’s Well Station No. 7., and;

B. Resolution No. 15-R-0032 – Intergovernmental Agreement with the State of Illinois Department of Transportation Defining the City’s Cost and Payment Obligations for Certain Roadway Improvements in Illinois Route 59 at Illinois Rout 38 Access Ramps (Agreement No. JN-115-024).

Voting Yea: Aldermen Smith, Edwalds, Beifuss, Hallett, and Ligino-Kubinski. Voting Nay: 0.

5. Items for Discussion. Items for discussion will include Consent Items 4.C.

4.C. Resolution No. 15-R-0033 – Contract Amendment No. 3 – Strand Associates, Inc., for Professional Engineering Construction Oversight Services for Well House No. 12. Mr. Flatter explained the history of the Well No. 12 Well House Project in accordance with the agenda item summary and introduced Mr. Chris Ulm of Strand Associates, Inc. Discussion centered on the failure of two SunStar motors and the undefined blame or cause of the failures; more troubleshooting is needed by the Contractor as the City awaits arrival of the third motor. Chairman Beifuss stated that the general problem is the need to get the well pump and motor operational, and he agrees that professional oversight is needed *and further, that the ultimate responsibility to provide a working motor rests with the Contractor.*

Chairman Beifuss asked if the City has an adequate supply of water now. Mr. Flatter stated that it does. With the approval of the repair of Well No. 7 (approved under Agenda Item 4.A.), there is some cause for concern, but the rehabilitation of Well No. 3 should be completed soon. Well No. 7 will not be taken out of service until either Well No. 3 or Well No. 12 is operational. Mr. Munder stated that the wells are changed out on a daily basis (deep and shallow).

Alderman Smith made a motion, seconded by Alderman Edwalds to approve Resolution No. 15-R-0033 authorizing Contract Amendment No. 3 with Strand Associates, Inc. Voting Yea: Aldermen Smith, Edwalds, Beifuss, Hallett, and Ligino-Kubinski. Voting Nay: 0.

A. Illinois Route 38/Fabyan Parkway/Washington Street Intersection Improvement Project – Plote’s Request to Commence Construction Activities at 6:00 A.M. Mr. Flatter explained that the current City Code restricts construction activities to 7:00 A.M., Monday through Friday, and 8:00 A.M. on Saturday. He stated that since this area is non-residential, the Contractor is asking for a temporary ordinance change to allow their activities to begin at 6:00 A.M., Monday through Saturday. **The Infrastructure Committee unanimously agreed to**

direct staff to present a Temporary Ordinance Revision to the next City Council meeting for approval.

B. Cancel the July 2, 2015 Infrastructure Committee Meeting. Mr. Flatter stated that at this time, there are no items for the July agenda. **The Infrastructure Committee unanimously agreed to cancel the July 2, 2015 Infrastructure Committee Meeting.**

6. Unfinished Business. None.

7. New Business. Mr. Flatter informed Committee that W.O.W. Cable Company has taken over the license agreement held by Ameritech for fiber optic transmission lines through West Chicago. They would like to expand from Illinois Route 38 along Joliet Street and up Washington Street to the west. This expansion will include a pass through transmission cable only (no services) and the City will most likely have to amend the current Agreement or prepare a new Agreement for City Council approval. He further stated that no new poles will be added. They will also be required to prepare engineering plans, obtain permits for the work and make any/all restorations. The City will monitor the activities.

8. Reports from Staff. Mr. Flatter stated that the Main Street pedestrian tunnel is open since the railing has been installed. There is one ten foot section on the upper part of the tunnel railing that is back in fabrication, but the City was promised a quick turnaround. There are still minor punchlist items to be completed, and to date, the Contractor has incurred over \$150,000.00 in liquidated damages.

9. Adjournment. At 8: P.M., Alderman Hallett made a motion to adjourn, seconded by Alderman Ligino-Kubinski. Motion was unanimously approved by voice vote.

Respectfully submitted,

Michelle Baldino
Executive Secretary

Introduction to Industrial Pretreatment

WEST CHICAGO WASTEWATER TREATMENT FACILITY



What is IPP

- ▶ IPP = Industrial Pretreatment Program
- ▶ Program designed to monitor and regulate Industrial discharges received by Publicly Owned Treatment Works (POTWs).
- ▶ IPP was born from the 1972 Clean Water Act
 - ▶ 1978 – Federal Pretreatment Regulations were established (40 CFR 403).
- ▶ Illinois' Pretreatment Program is enforced by the USEPA.

Pretreatment Hierarchy

Federal Clean Water Act

National Pretreatment
Program (40 CFR 403)

Individual State
Regulations

Local
SUO



Why is IPP Important?

- ▶ Prevent pass-through
 - ▶ Clean rivers, groundwater, and land
 - ▶ Compliance with NPDES and sludge limits
- ▶ Prevent interference
 - ▶ Properly functioning and compliant POTWs and Collection Systems.
 - ▶ Accumulation of certain pollutants can create serious hazards
- ▶ Allow for use of biosolids
 - ▶ Land application / fertilizer / composting
- ▶ Protect worker Health and Safety

What's Monitored: Local Limits

Parameter	Sample Type	Limit	Units
pH	Grab	6.0-9.0	
Temperature	Grab	150	°F
BOD	Composite	200*	mg/L
TSS	Composite	220*	mg/L
TDS	Composite	5000	mg/L
Cyanide	Grab	No Detect	mg/L
Mercury	Composite	0.005	mg/L
Ammonia	Composite	15.0*	mg/L

Metals	Sample Type	Limit	Units
Arsenic	Composite	0.5	mg/L
Barium	Composite	25	mg/L
Cadmium	Composite	0.25	mg/L
Chromium (Hexavalent)	Composite	1.0	mg/L
Chromium	Composite	5.0	mg/L
Copper	Composite	2.0	mg/L
Lead	Composite	0.5	mg/L
Nickel	Composite	5.0	mg/L
Silver	Composite	0.2	mg/L
Zinc	Composite	5.0	mg/L



What's Monitored?: BOD Loading

- ▶ Biochemical Oxygen Demand – BOD: A measure of the amount of oxygen consumed by microorganisms in decomposing organic matter.
 - ▶ Biological oxidation of organic matter.
- ▶ BOD can be thought of as a food source.
 - ▶ High BOD means high amounts of organic matter.
- ▶ Activated sludge is a delicate operation in which populations of microorganisms are cultured to process organic waste.
 - ▶ POTW is fine tuned to maintain appropriate and healthy microorganism populations
- ▶ Large influxes of BOD results in disturbances to microorganism populations and consequently leads to effluent quality issues.

Types of Industrial Users

- ▶ Industrial Users: any user of the collection system that is not a domestic source that discharges to a POTW (direct dischargers receive their own NPDES Permit).

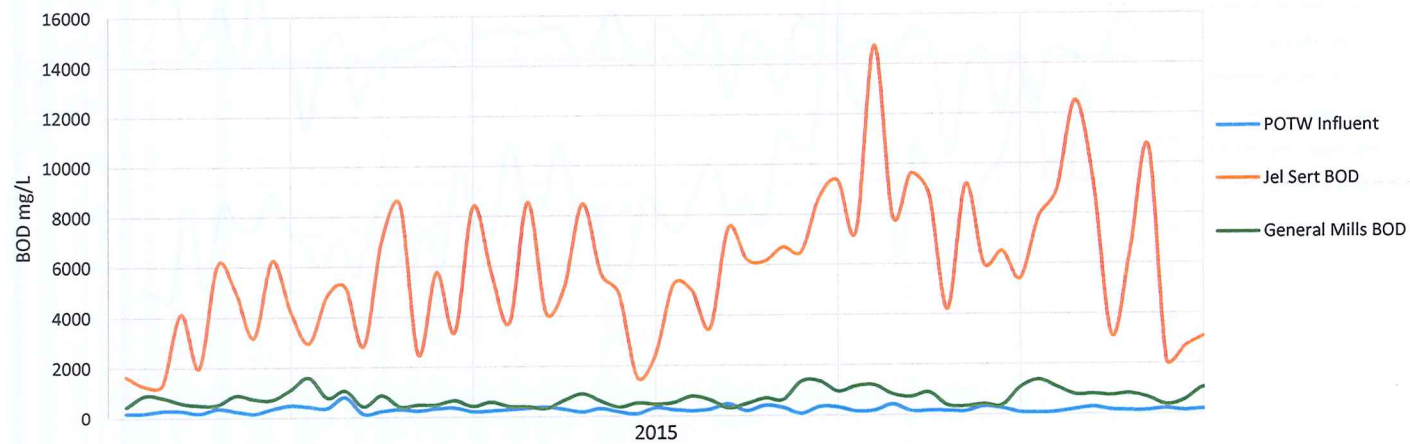
Significant Industrial User—SIU	Categorical Industrial User—CIU
>25,000 gal/day process wastewater	A subset of SIU (all CIUs are SIUs)
>5% maximum allowable headworks loading (MAHL)	An SIU that is covered by a specific Federal Categorical Regulation
Any facility the Control Authority believes to have the potential to adversely impact the POTW	I.E. Metal Finishers, Pharmaceuticals, pesticides, etc.

Industrial Users of West Chicago

Significant Industrial Users		Categorical Industrial Users	
Central DuPage Hospital	NA	Advanced Electronics	Printed Circuit Boards (433.17)
INX International Ink	Ink Manufacturer	American Standard	Printed Circuit Boards (433.17)
General Mills	Breakfast Cereals	Delta Circuits	Printed Circuit Boards (433.17)
Mapei	Adhesives/Composites	Jel Sert	Liquid Beverage and Dry Powder Drink Mix (463)
OSI Industries	Meat Processer		
WinCup	Styrofoam Cups		

Industrial Impacts on West Chicago

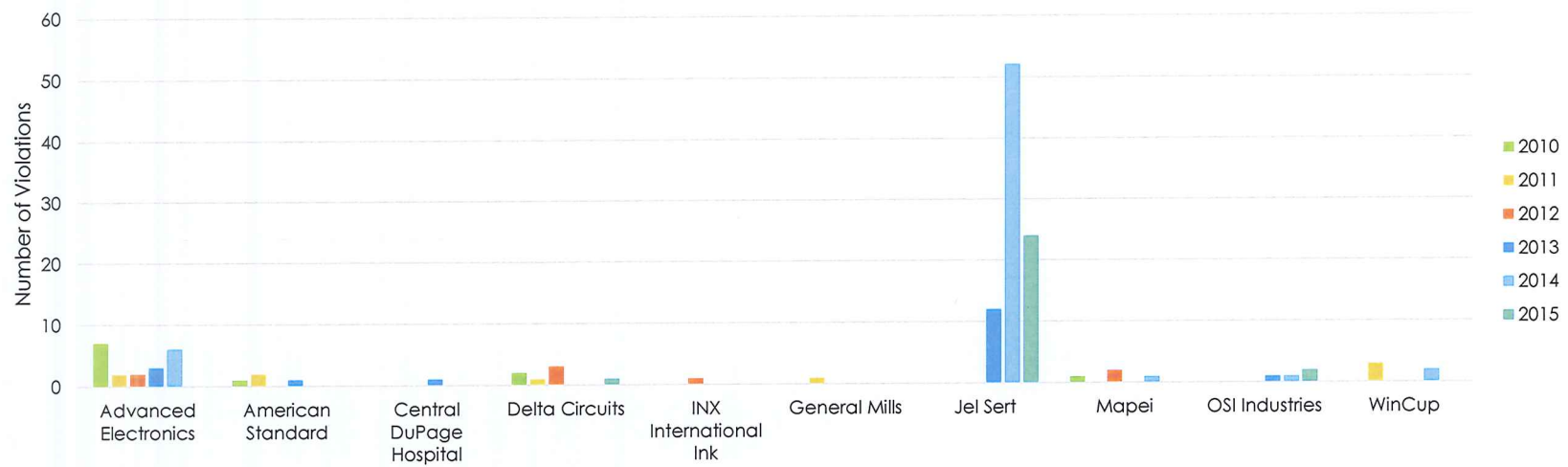
Jel Sert BOD Loading in Comparison to POTW Total Influent BOD



Color Issues at West Chicago WWTP



Industrial User Compliance History



West Chicago IPP Preventative Measures

Industrial Survey

- ▶ Conducted to identify the nature and quantity of industrial pollutants entering the POTW.
- ▶ Aids in determining sampling and monitoring frequencies
- ▶ Keeps the program up to date
- ▶ NPDES Permit mandates that the program be updated regularly to ensure all SIUs are properly identified, characterized, and categorized.

Surcharge Rates

- ▶ Rates applied to Industries who contribute more than the local limit amount for certain parameters
- ▶ Surchargeable rates in West Chicago include: BOD, TSS, and $\text{NH}_3\text{-N}$
- ▶ Purpose is to provide a funding source for excessive wear on the POTW and collection system by certain Industrial Users.

2014 Annual Surcharge Rates for Jel Sert and General Mills

