

Metal Finishing Champion Group

DTSC-Model Shop/P2 Presentation

LA INDUSTRY

MEDIA CENTER

AUGUST 22, 2019



PEOPLE ARE INHERENTLY CAPABLE OF
MAKING PROPER JUDGEMENT WHEN
THEY ARE PROPERLY INFORMED.

THOMAS JEFFERSON

Agenda

Facilitator: Edward Calleros

Introduction - Michael Simpson, IWMD's Manager

Clean Up Green Up (CUGU) - Melissa Plamondon

Metal Finishing Association of Southern California

Pollution Prevention (P2) - Dr. Nabil Yacoub/DTSC

The Industrial Wastewater Permit - Minh Nguyen

Model Shop - Dr. Nabil Yacoub/DTSC

Compliance Inspection - Miguel Rodas

The Improvement Rule - Dr. Nabil Yacoub/DTSC

DWP Water Conservation Program – Leo Gonzalez

Survey - Jan Marte

Closing Remarks - Manik Mohandas

Industrial
Waste
Management
Division
(IWMD)

Mr. Michael Simpson, P.E.
Division Manager



Metal Finishing Association of Southern California

“The Voice of the Industry”



Advocacy/Representation



Support & Information





Pollution Prevention

A practice that reduces the amount of any hazardous substance, pollutant, or contaminant entering any environmental system or otherwise released into the environment.

Department of Toxic Substances Control

Please welcome

Dr. Nabil Yacoub

Senior Hazardous Substance Scientist
California Environmental Protection Agency

Who needs an Industrial Wastewater Permit?

It is the policy of the City of Los Angeles to assure that the highest and best use of the Publicly Owned Treatment Works (POTW) is for the collection, treatment and disposal of domestic wastewater. The use of this system for industrial wastewater is a privilege...

The Industrial Wastewater permit.

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INDUSTRIAL WASTE
MANAGEMENT DIVISION
2714 MEDIA CENTER DRIVE
LOS ANGELES, CA 90055
OFFICE: (323) 342-6200
FAX: (323) 342-6111

November 01, 2016

A.V. Plating
12071 Branford Street, Unit 14
Sun Valley, Ca 91352

In Reply Refer to: IU109493.prm/nd

Attn: Lizzy Sedano, Manager

RENEWAL OF INDUSTRIAL WASTEWATER PERMIT FOR IU109493
PERMIT: W-517365

The Bureau of Sanitation has completed a review of A.V. PLATING's application to discharge industrial wastewater to the City of Los Angeles sewer system. Pursuant to the Bureau's audit, it has been determined that this facility is subject to the Metal Finishing, 40 CFR 433, Subpart A (PSNS) and other applicable Federal, State and Local wastewater discharge requirements. Therefore, in accordance with provisions of the Los Angeles Municipal Code (L.A.M.C.) Section 64.30, this Industrial Wastewater Permit is being issued to include comprehensive permit conditions which identify the requirements that are applicable to A.V. PLATING. All discharges from this facility and actions and reports relating thereto shall be in accordance with the terms and conditions of this permit.

This permit shall become effective at midnight on **November 01, 2016** and shall expire at midnight on **October 31, 2019**. During the term of this permit, the permittee shall immediately notify the Bureau of Sanitation of any changes to the facility, process, production, or pretreatment system that may change the characteristics which causes it to be different from that expressly allowed under this permit.

If there are any questions regarding these permit conditions, please contact Nataly Dakak of my staff at (323) 342-6097.

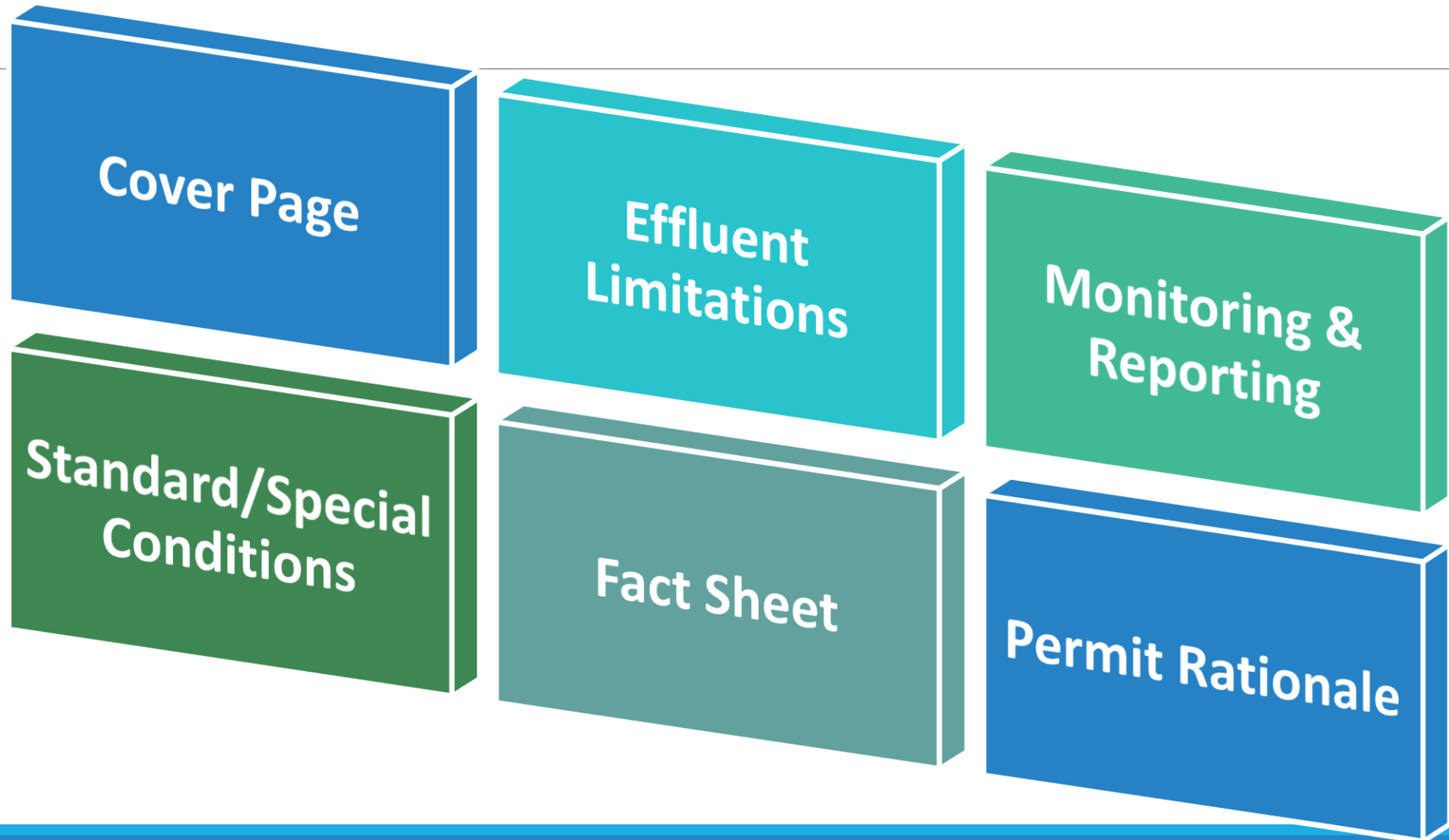
Sincerely,

ENRIQUE C. ZALDIVAR, Director
LA Sanitation

By

Michael Simpson, Division Manager
Industrial Waste Management Division

The Contents of an Industrial Wastewater Permit



Monitoring & Reporting Requirements



If <10K gpd-----Bimonthly SMR;

If >10K gpd-----Monthly SMR

TTOs (RE list)

Meeting Compliance



Comply with Report Due Dates



Comply with Discharge Limitations



Significant Non-Compliance (SNC)
Discharge & non-discharge violations

Special & Standard Conditions

SPECIAL CONDITIONS

- ❖ Reasonable Expected (RE) TTOs
- ❖ Toxic Organic Management Plan (TOMP)
- ❖ pH monitoring/recording system
- ❖ Flow meter maintenance/calibration
- ❖ Certification requirement for pollutant neither present nor expected
- ❖ Manifest requirements

STANDARD CONDITIONS (PART 6)

- ☐ General & specific prohibitions (Interference, Pass Through, or Imminent Danger).
- ☐ Permit Provisions
- ☐ Operation & maintenance of pollution controls
- ☐ Monitoring & records
- ☐ Additional reporting requirements

SIGNIFICANT NON-COMPLIANCE

How to avoid being in SNC



Understand SNC
criteria



Schedule sampling
early (1st month)



Diligence with
monitoring and
reporting (submittals)



Metal Finishing Model Shop Program

A partnership between the industry and regulatory agencies to help metal finishing businesses run cleaner, safer shops.

The Inspection

- ❖ Baseline Information
- ❖ Finishing Processes
- ❖ Pollutants
- ❖ Evaluation of Pretreatment Systems
- ❖ Determine Compliance



What is Metal Finishing?

Additional changes:

Greater corrosion resistance

Strength & durability

Increase electrical
conductivity/resistance

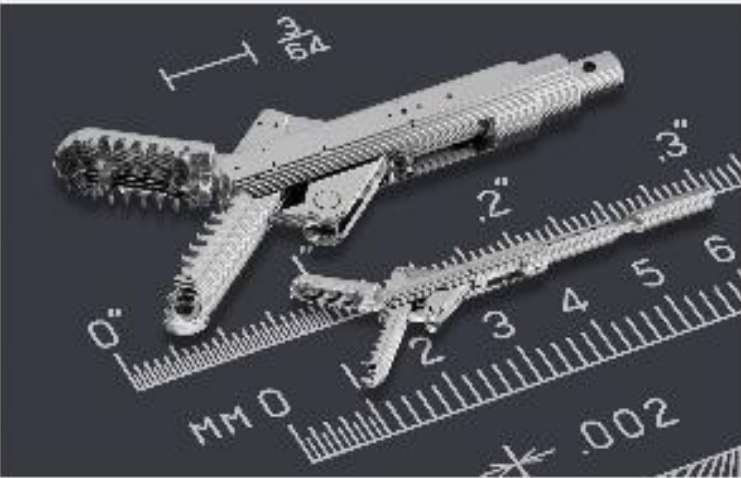
Friction-surface hardness

Heat, wear/tear resistance

Functional/decorative

The process of changing the surface of an object, for the purpose of improving its appearance and/or durability.

Industries Served by Metal Finishing



Metal Finishing Processes



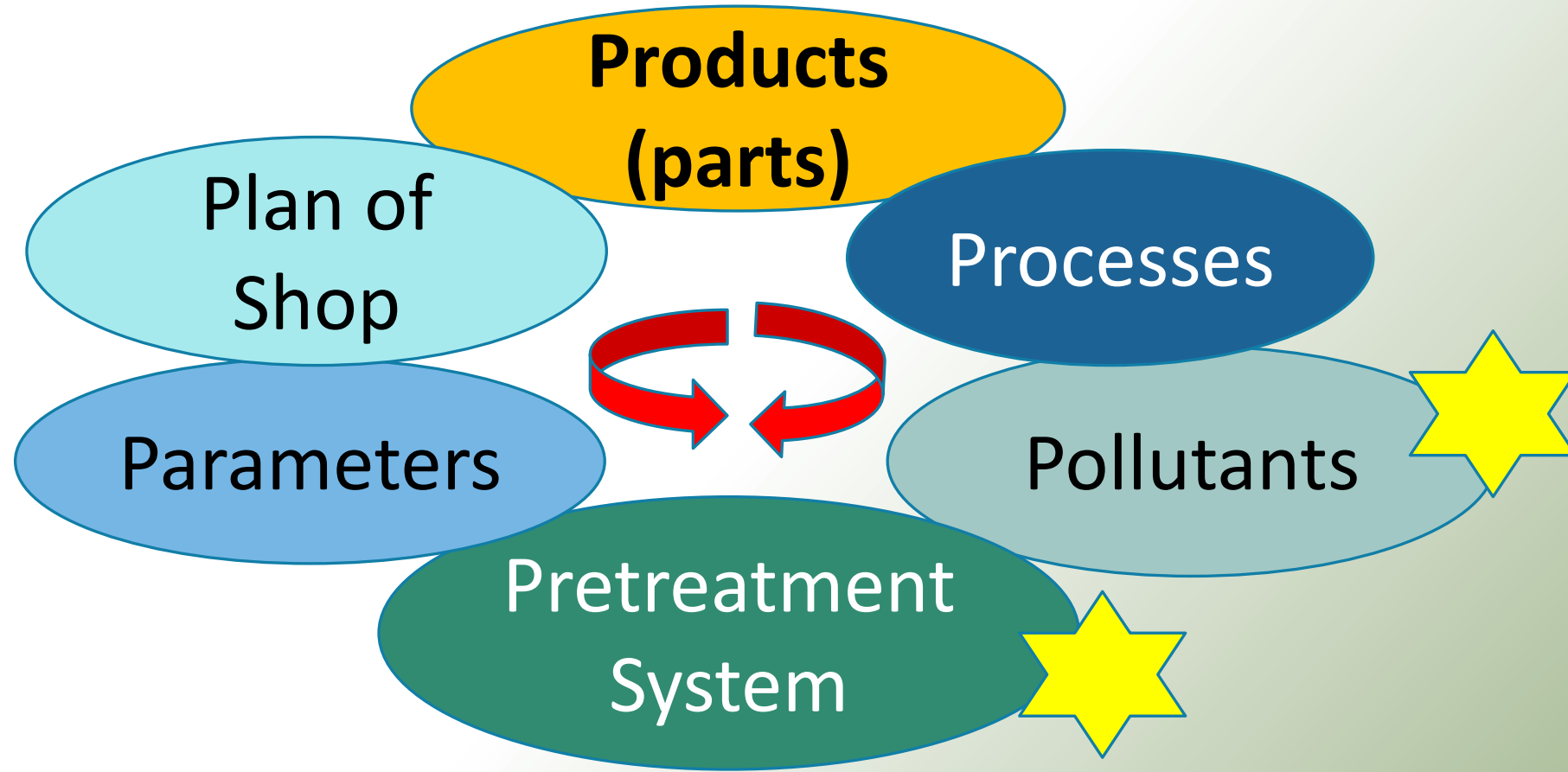
Electroplating
Electroless Plating
Coating

Anodizing

Chemical Etching/Milling
Printed Circuit Board (PCB)



6Ps MODEL SYSTEM



Products (Parts) & Processes

Raw materials to finished products

Identify waste streams and volume

Piping; hard piping vs. flex hoses

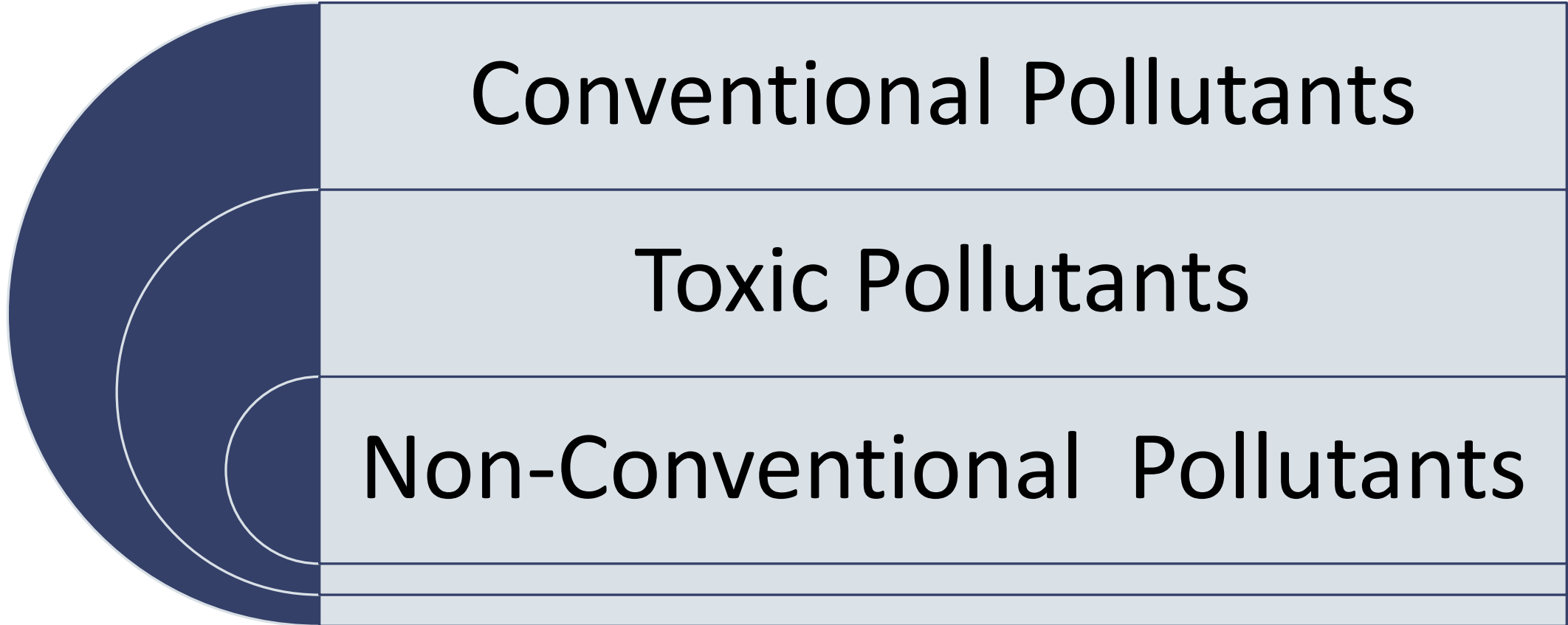
Dilution sources

Tank layout (existing vs. current)

Regulated
Waste
Streams

Dilution

Pollutants



Wastewater Characteristics

Inorganic Wastes

Common Metals

Precious Metals

Complexed Metals

Organic Wastes

Cyanide

Oil/Grease/Dirt

Toxic Organics

Process Line

Surface Preparation



Metal Finishing



Post Treatment



The Pollutants

INORGANICS - HEAVY METALS

Copper

Cadmium

Chromium
(Hexavalent)

Nickel

Zinc

Precious Metals
(Au, Ag)

ORGANICS

- ☐ Cyanide
- ☐ Organic Volatiles
- ☐ Organic Semi Volatiles
- ☐ Oil & Grease



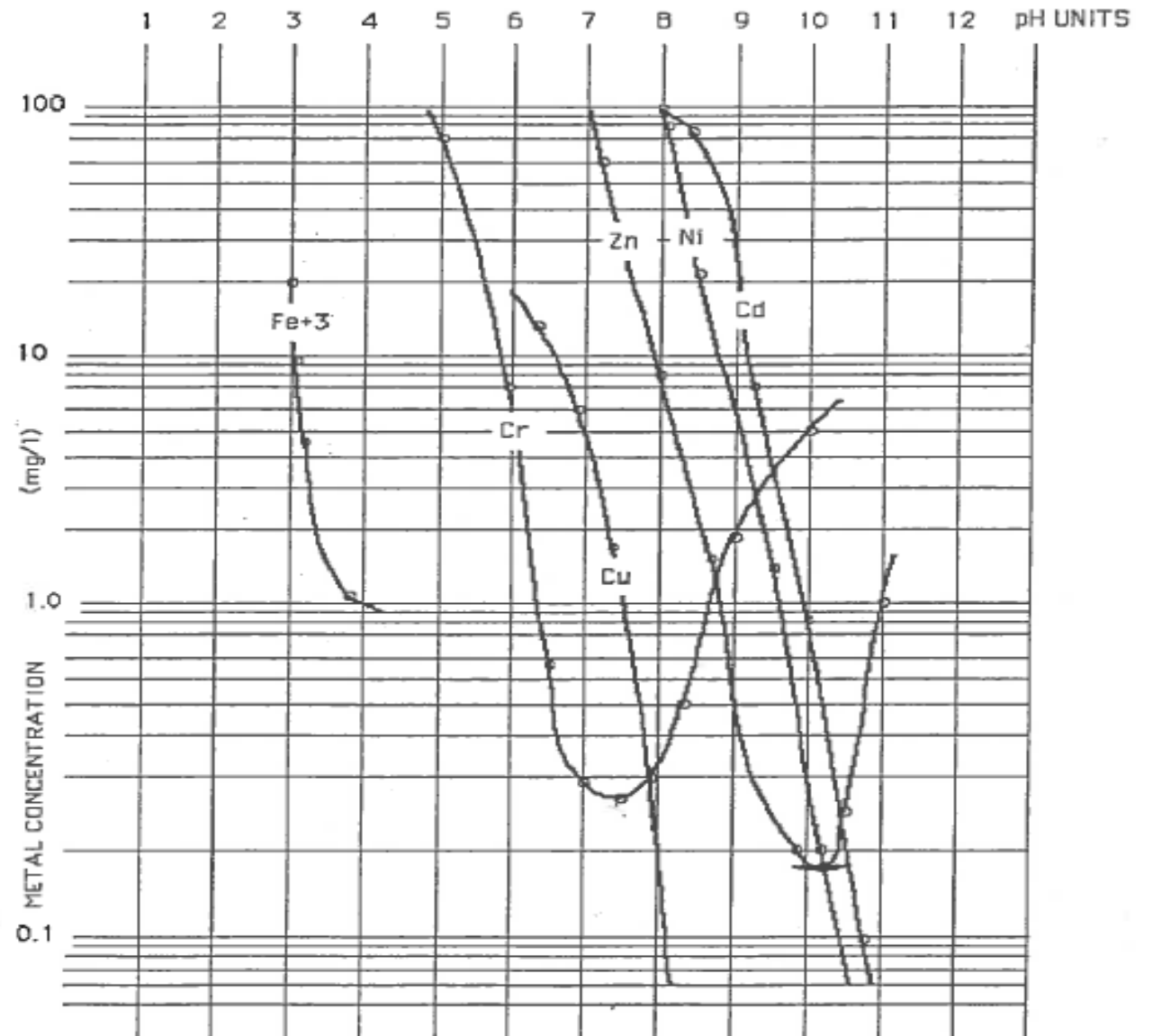
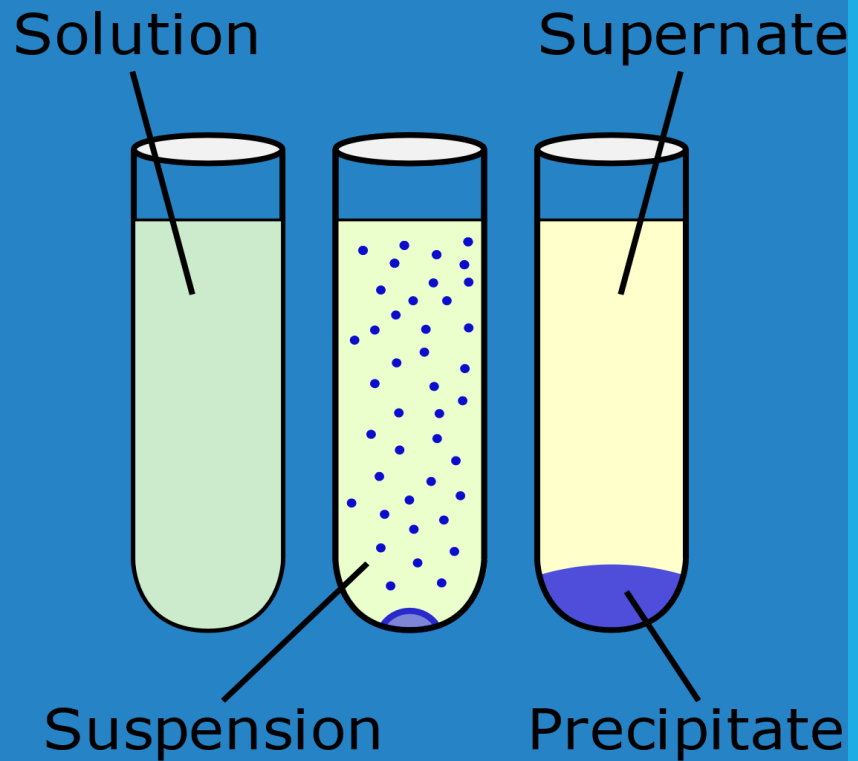
Wastewater Treatment Fundamentals



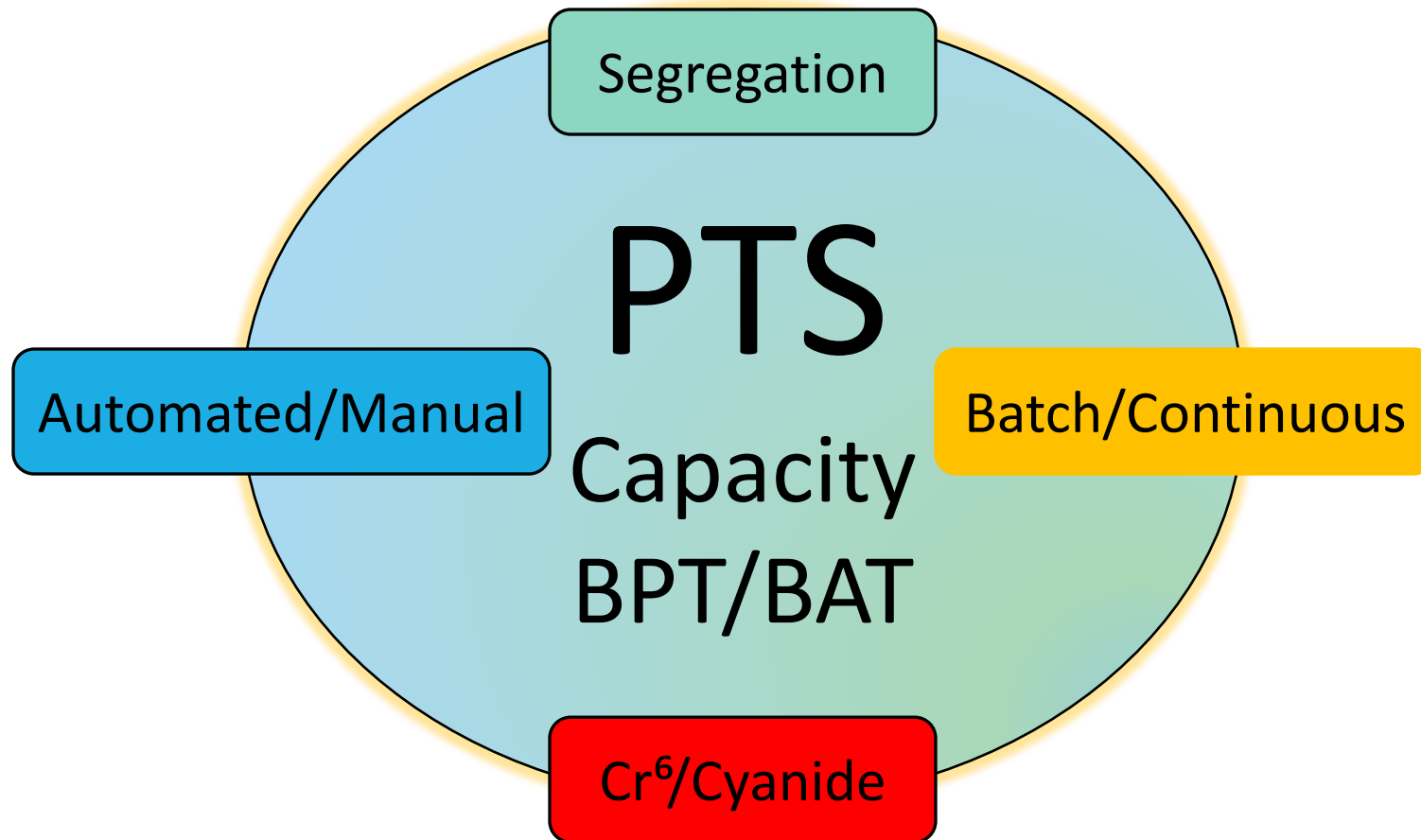
**Federal Water Pollution
Control Act**

Clean Water Act
goal: elimination of pollutants

Solubility of Metals



The Pretreatment System (PTS)



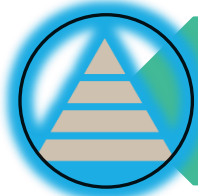
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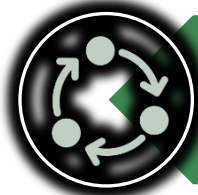
Monitoring Requirements



Reporting Requirements

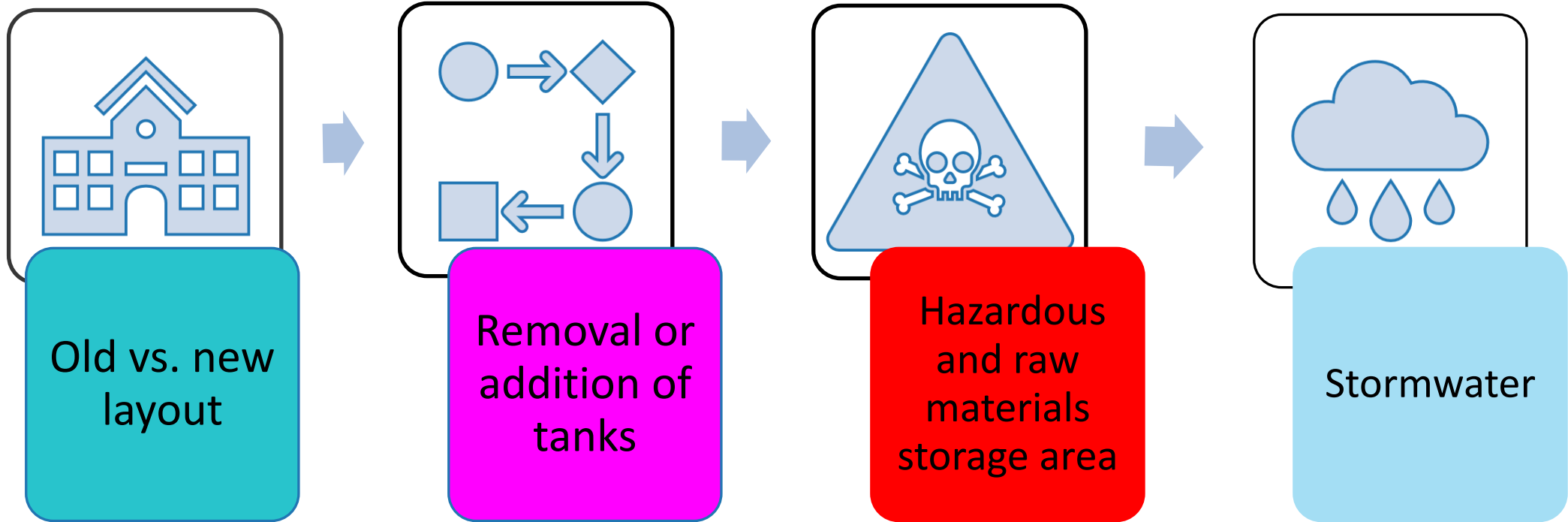


Special Conditions

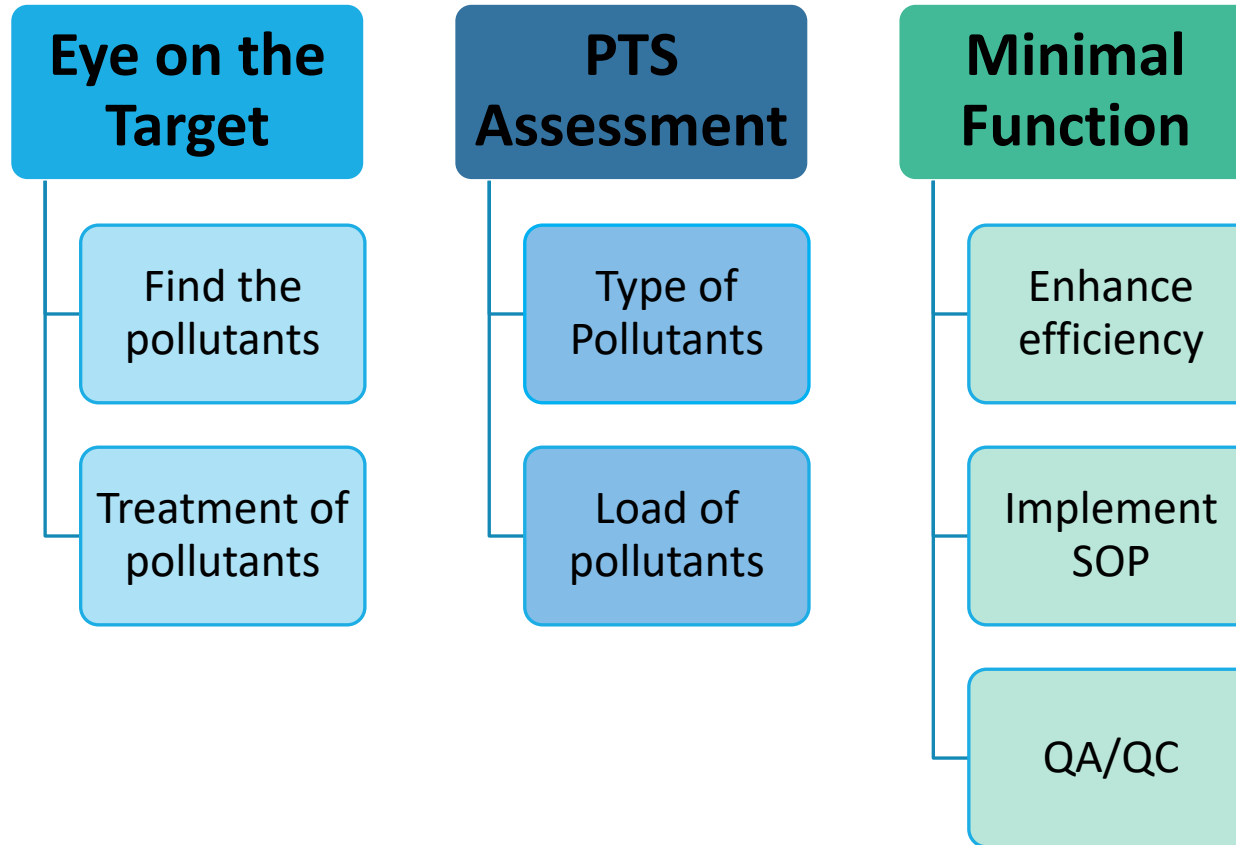


Standard Conditions

Plan (Layout) of Shop



What is your take?



Generator Improvement Rule

Ignitable

Corrosive

Reactive

Toxic



Department of Toxic Substances Control

Please welcome

Dr. Nabil Yacoub

Senior Hazardous Substance Scientist
California Environmental Protection Agency

WATER CONSERVATION PROGRAM



Los Angeles
Department of
Water & Power





Water Conservation Technical Assistance Program (TAP)

What Is It?

- The Technical Assistance Program (TAP) is a financial incentive program offering commercial, industrial, institutional, and multi-family residential customers in Los Angeles up to \$250,000 for the installation of pre-approved equipment and products, which demonstrate water savings.
-
- This joint effort between the LADWP and you, our customer, will help modernize your facility with the latest water-efficient equipment, save you money, and conserve our most precious natural resource.

Benefits

- Modernize your facility with the latest water efficient equipment
- Save money on your water bill
- Conserve a precious resource

Instructions

- I. PROJECTS THAT HAVE BEEN STARTED OR ALREADY COMPLETED PRIOR TO REBATE APPROVAL ARE NOT ELIGIBLE.
- II. Read the program terms and conditions and the guidelines provided with the application package. (Visit www.ladwp.com/tap)
- III. To talk to a Water Conservation Specialist about your potential project and/or to assure that your project qualifies for the program call 1-800-544-4498 press “5”. In order to know if your proposed project qualifies, please be prepared to answer the following questions:
 1. What exactly does your proposed project do?
 2. How does it work?
 3. How soon do you expect to have it up and running?
 4. Will the work be done in-house or by a contractor?
 5. Approximately how much will this project cost you?
 6. How much water do you expect to save?
- IV. Remember, this program is funded by the Los Angeles Department of Water and Power and is subject to change at any time without prior notice.

Power Rinse Savings Chart

Hours of Usage	Water Savings (gallons/day)	Wastewater savings (gallons/day)	Gas savings (therms/day)	Annual Dollar Savings
2 hours per day	100	100	0.7	\$300 - \$400
4 hours per day	200	200	1.3	\$700 - \$900
6 hours per day	300	300	2.0	\$1000 - \$1300

Submit completed application to:

LADWP Water Conservation
Technical Assistance Program (TAP)
1230 W. 3rd St Ste. 111
Los Angeles, CA 90017

Contact Information:

Water Conservation Hotline: 1-800-544-4498
Fax Number: (213) 367- 1055

Pre-Rinse Spray Valve



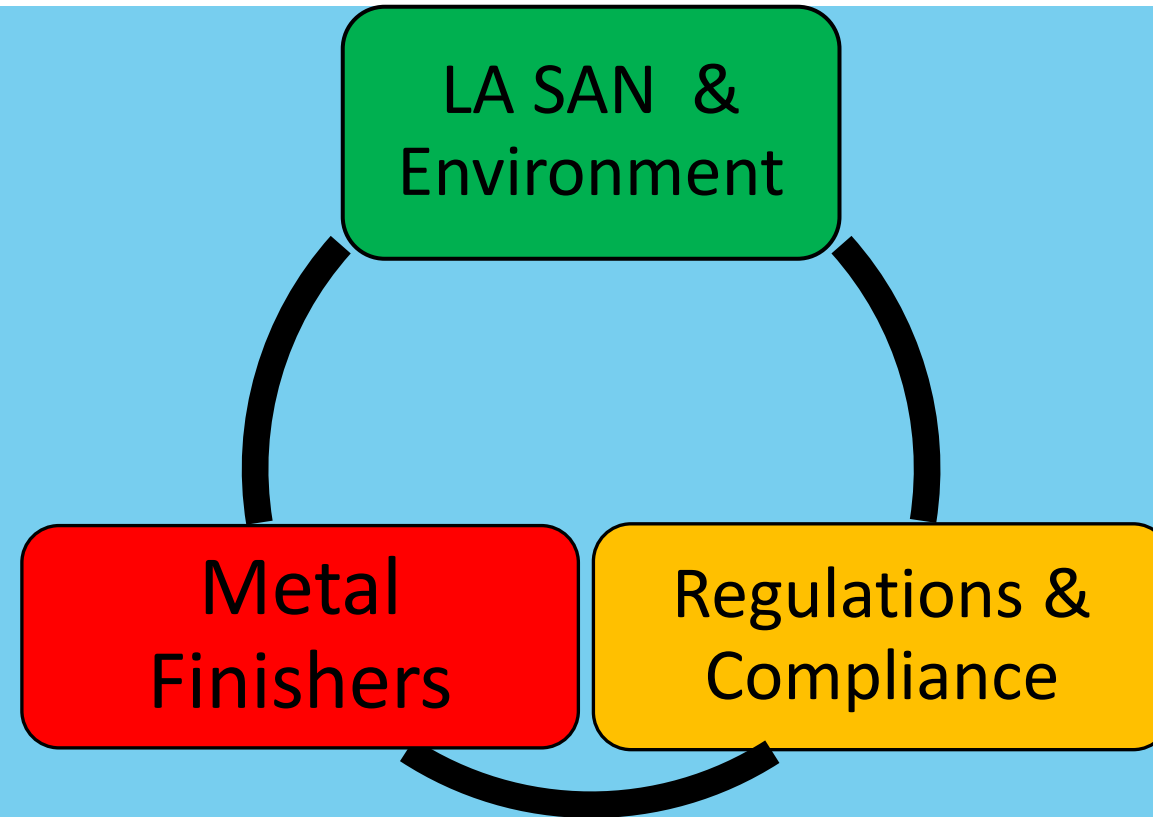
Features

- Ultra efficient 1.1 gallon per minute
- Solid brass and 100% ceramic disk means no leaks
- High power fan spray measures minimum 3 inches wide at a distance of 9 inches from spray nozzle
- Convenient always-on handle clip for constant flow
- Interchangeable with all brands
- 5 year warranty

The Survey



Final Remarks



Important Links to check
Lasan.org/IWMD/Resources



The City of Los Angeles –
Green Business Program

<https://www.lacitysan.org/san/sandocview?docname=cnt022378>

Business Resource & Incentive Guide
LA Industry's Guide to Savings

<https://www.lacitysan.org/san/sandocview?docname=cnt020103>

Green Chemistry Guide

<https://www.lacitysan.org/san/sandocview?docname=cnt022546>

LADWP
Water Conservation Rebate Program

<https://www.ladwp.com/>

