

Information Item: 2016 Environmental Services Intern Program

Larry Rogacki – Assistant General Manager, Support Services

Sarah Bosak – Intern, Interceptor Services

Kendra Fallon – Intern, Industrial Waste Pollution Prevention

Ben Vargo – Intern, Community Programs

Environment Committee: August 23, 2016



Regional Maintenance Facility Library Project

Sarah Bosak

Intern, Interceptor Services



Background

- Graduated, Minnesota State University, Moorhead (May 2016)
- B.A. in English, Technical Writing Emphasis
- Worked in academic and public library settings

Internship Summary

- Inventory the Regional Maintenance library
- Downsize sections
- Catalog using Inmagic

Inmagic DB/TextWorks for SQL 13.00 - allcats_copy <Shared> - [Report: Record 1 of 1]

File Edit Records Display Search Sets Inmagic.net Maintain Tools View Window Help

ID **88531**

TYPE Catalogs

CALL NUMBER Online

LOCATION Internet

TITLE Infratech Products and Equipment

AUTHOR Infratech
Infrastructure Technologies, Inc.

PUBLISHER Infratech

PUBLOC Rogers, MN

PHYSICAL DESCRIPTION 1v

SORT r

MARKER Removed RMFCAT D2 085 and replaced with URL. SB 8/17/16

LIBRARY Internet

COPIES 1

CAT Allcats

URL LINK <http://infratechonline.com/products-equipment/>

URL DEFINE Infratech Web Site

RECORD CREATED 9/7/2012 11:34:29

RECORD MODIFIED 8/17/2016 11:12:23

Inmagic DB/TextWorks for SQL 13.00 - allcats_copy <Shared> - [Edit: Record 1 of 1]

File Edit Records Display Search Sets Inmagic.net Maintain Tools View

ID 88531

TYPE Catalogs

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TITLE Infratech Products and Equipment

VARIANT TITLE

FORMER TITLE

RELATED TITLE

ABBREVIATED TITLE

AUTHOR *Infratech
*Infrastructure Technologies, Inc.

JOURNAL

CITATION

PUBLISHER Infratech

PUBLOC Rogers, MN

DATE

FORMER PUBLISHER

FORMER PUB LOC

Library Catalog

Your search found 1 records. Results sorted by relevency.

Record 1 of 1

Author: Infratech; Infrastructure Technologies, Inc.

Title: [Manhole Restoration Infiltration Services.](#)

Publication Data: Infratech. Rogers, MN.
1v.

Document Type: Catalogs

Electronic [Click here](#)

Access: Infratech Web Site

Call Number	Location	No. of Copies
RMFCAT D2 085	Regional Maintenance Facility - Eagan	1

If you need assistance locating this item, contact:

donna.hamden@metc.state.mn.us

Powered by DB/Text *WebPublisher*, from **INMAGIC**

Internship Summary

- Operations and Maintenance Manuals
- Arbortext Import Project
- Authoring Standard Operating Procedures

Blower Lockout/Tagout at Empire

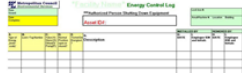
Procedure summary This procedure describes steps to shutdown, lock and tag a Turblux blower at the Empire plant.

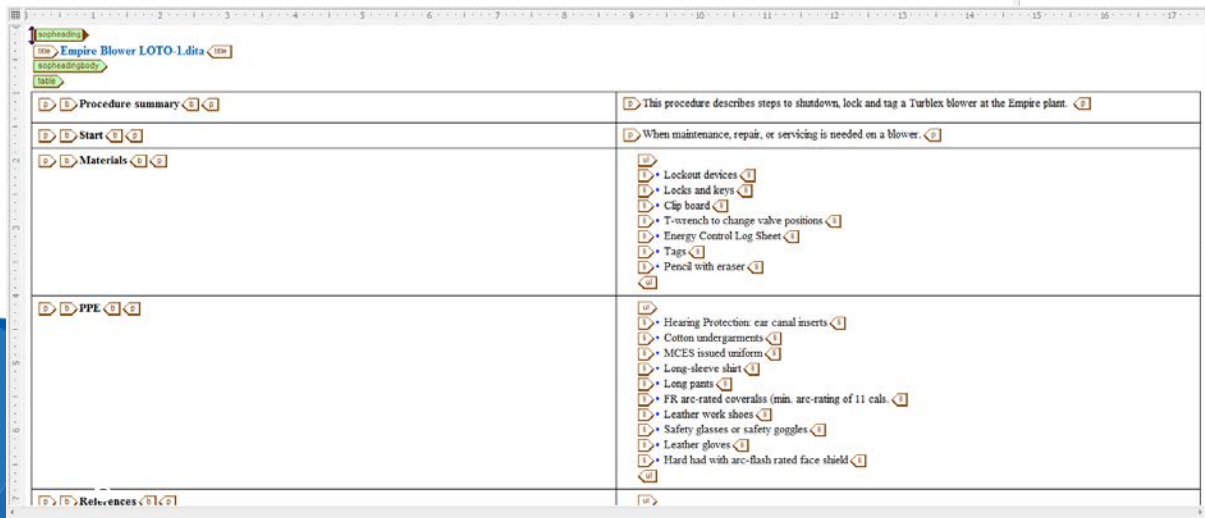
Start When maintenance, repair, or servicing is needed on a blower.

- Materials**
- Lockout devices
 - Locks and keys
 - Clip board
 - T-wrench to change valve positions
 - Energy Control Log Sheet
 - Tags
 - Pencil with eraser

- PPE**
- Hearing Protection: ear canal inserts
 - Cotton undergarments
 - MCES issued uniform
 - Long-sleeve shirt
 - Long pants
 - FR arc-rated coveralls (min. arc-rating of 11 cals.
 - Leather work shoes
 - Safety glasses or safety goggles
 - Leather gloves
 - Hard had with arc-flash rated face shield

- References**
- SOP:MCES Energy Control- Lockout/Tagout SOP
 - OSHA 29 CFR 1910.147
 - WI:MCES Energy Control- Lockout/Tagout Work Instruction
 - NFP70E: Arch Flash Hazards

Actions:	Do This:
1. Notify others	a. Contact the BUC or ABUM in charge of the area or process to notify them of the blower shutdown. b. Obtain clearance before shutting down the blower and starting the lockout/tagout procedure.
2. Prepare for shutdown 	a. Fill out initial sections of the energy control log. b. Assess and minimize hazards or obstructions around the area, the equipment and the electrical panels. c. Collect locks, tags, devices, and PPE. d. Start alternative blower (See blower startup SOP).
e. If the system will stay in service, select an alternative blower to start.	f. Place instructions for switching blowers here.

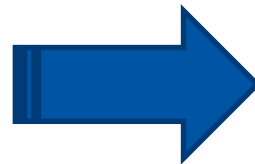


Empire Blower LOTO.Ldita

- Procedure summary
 - This procedure describes steps to shutdown, lock and tag a Turblux blower at the Empire plant.
- Start
 - When maintenance, repair, or servicing is needed on a blower.
- Materials
 - Lockout devices
 - Locks and keys
 - Clip board
 - T-wrench to change valve positions
 - Energy Control Log Sheet
 - Tags
 - Pencil with eraser
- PPE
 - Hearing Protection: ear canal inserts
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 - Safety glasses or safety goggles
 - Leather gloves
 - Hard had with arc-flash rated face shield
- References

What's Next?

- Optimizing library space
- Continue cataloging
- Arbortext import project



Benefits of Internship

For the Council:

- Library
- Standard Operating Procedures
- Operations and Maintenance Manuals

For me:

- Learning new programs
- Hands on experience
- Networking opportunities

Questions

Veterinary Clinic and Animal Hospital Project

Kendra Fallon

Intern, Industrial Waste and Pollution Prevention (IWPP)



Background

- Bachelor of Science in Geological Engineering – University of Minnesota (Dec 2015)
 - Minor: Earth Science
- Graduate Degree in Environmental Engineering (expected May 2017)

Vet Clinic Project Goals

- 1. Understand the extent of wastewater discharges from veterinary clinics**

Vet Clinic Project Goals

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Vet Clinic Project Goals

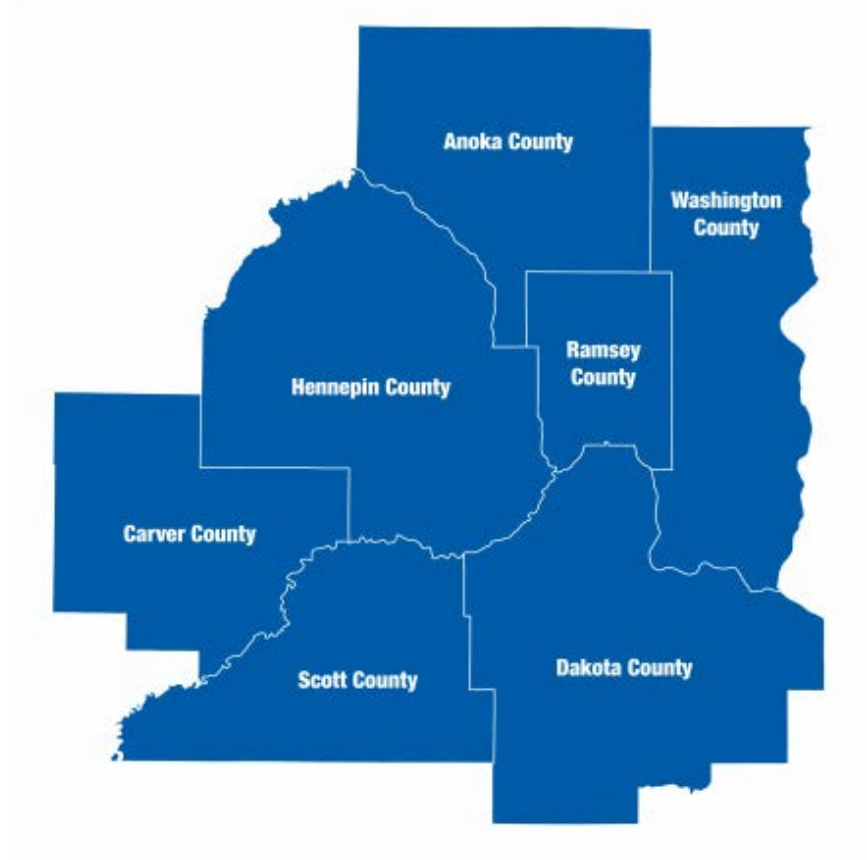
- 1. Understand the extent of wastewater discharges from veterinary clinics**
2. Decide if veterinary clinics should be permitted by MCES

Vet Clinic Project Goals

- 1. Understand the extent of wastewater discharges from veterinary clinics**
2. Decide if veterinary clinics should be permitted by MCES
3. Develop Best Management Practices (BMPs) for veterinary clinics

Work Accomplished

- Compiled a list of veterinary clinics within Met Council jurisdiction and added new clinics to internal database
 - Around 200 clinics
- 4 veterinary clinic initial inspections
- Development of survey to be sent out to vet clinics



Future Work for Project

- Compile and analyze data from survey
- Determine if veterinary clinics should be permitted by MCES
- Development of Best Management Practices for veterinary clinics

Additional IWPP Work

- Update and communicate with Sewer Cleaning Waste Hauler Permit applicants
- Industrial inspections
- Informational interviews with 10 government employees
- Toastmasters
- Children's Water Festival – September 28th



Additional IWPP Work

- Update and communicate with our Sewer Cleaning Waste Hauler Permit applicants
- Industrial inspections
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Questions

Using Maps to Improve Community Interactions

Ben Vargo

Intern, Community Programs



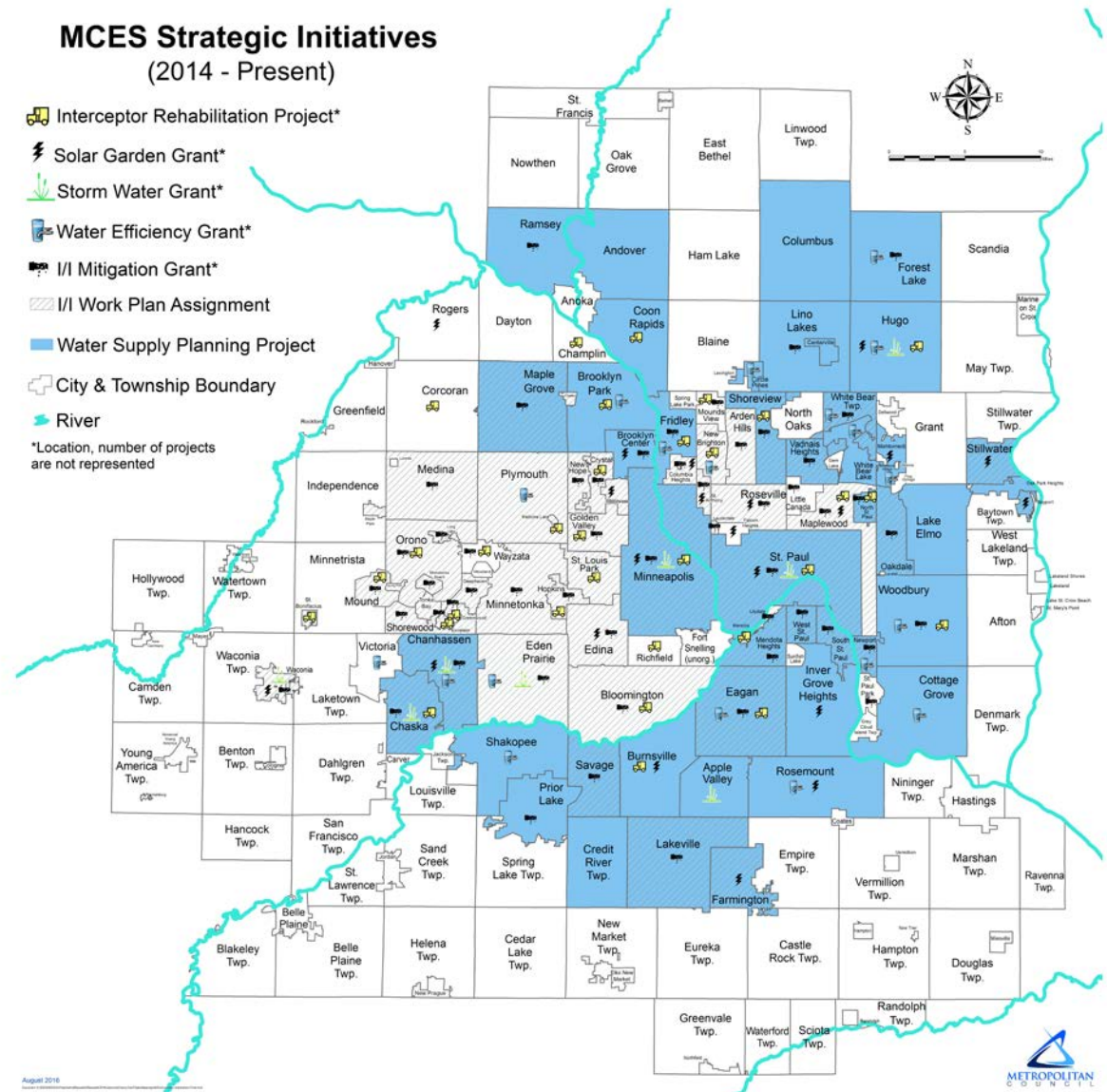
Background

- Macalester College
- Geography, Urban Studies, GIS
- Intersection of Social & Environmental Sustainability



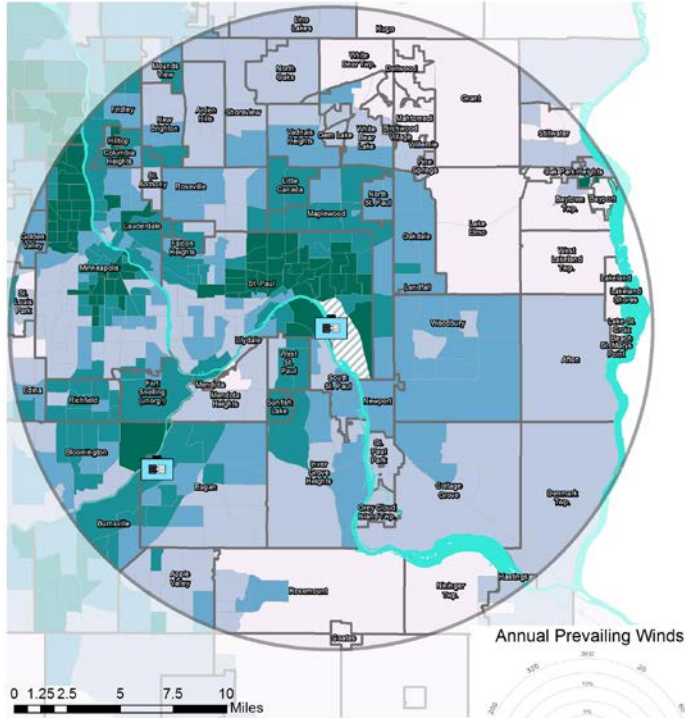
Strategic Initiatives Map

- Represent Customer Relationships
- Aid staff in preparing for community meetings
- *Ongoing



Environmental Justice Screening

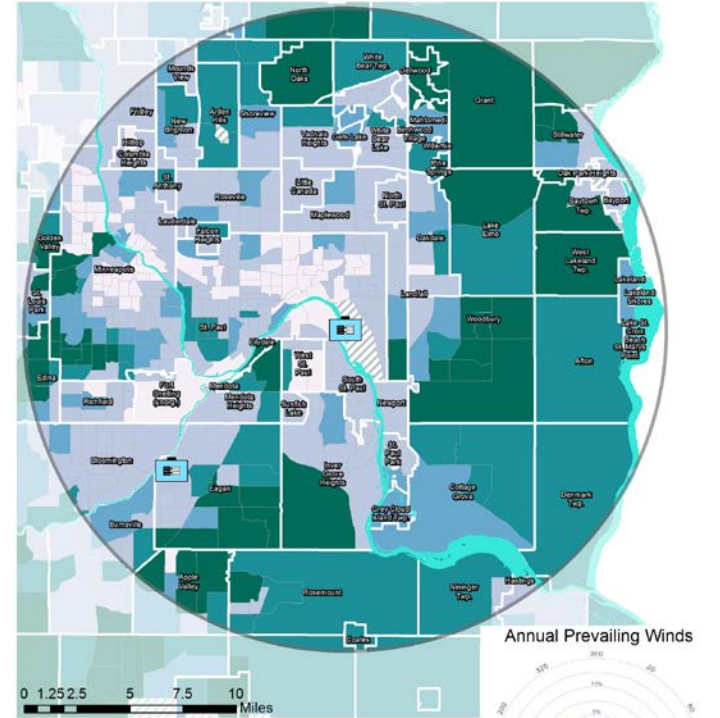
Percentage of Population Identifying as People of Color
By Census Tract, ACS 5-year Average (2010-2014)



Annual Prevailing Winds



Median Household Income
By Census Tract, ACS 5-year Average (2010-2014)



Annual Prevailing Winds



*\$68,000 represents the median household income of the Minneapolis-St. Paul Metropolitan Area

- Helps understand community characteristics
- Helps Council tailor project outreach efforts
- *Ongoing

Conclusions

- Learning
- Building Relationships
- Continued Opportunities

Questions