

#### **EXHIBIT A**

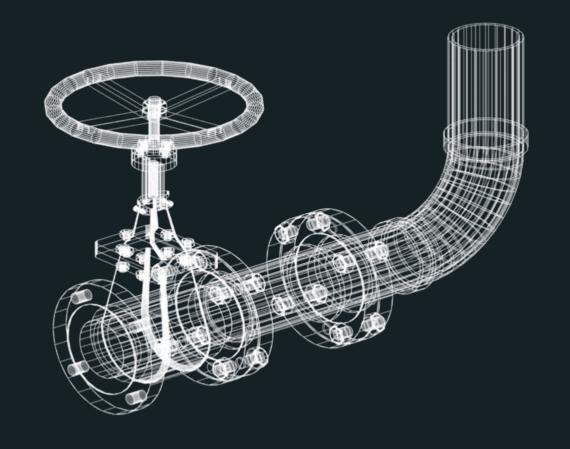
#### **IOREX SMMARY for CARMEL AREA WASTWATER DISTRICT**

WHAT is IOREX
WHAT IOREX DOES
WHY IOREX IS DIFFERENT
IOREX SUMMARY

**IOREX DECLARE LABEL** 

IOREX APPLICATIONS:
72 HOUR TESTING
336 HOUR TESTING
12 MONTH TESTING & MAGNETITE

CASE STUDIES
W HOTEL (WASHINGTON HOTEL)



#### WHAT IS IOREX?

IOREX is the only sustainable pipe protection solution that does <u>not</u> require ongoing maintenance and significantly reduces pipe deterioration & bacterial contamination.







MICROBIAL CONTROL (BACTERIA & PATHOGENS)



CORROSION CONTROL

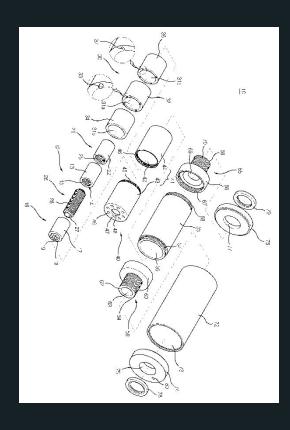


SCALE CONTROL

#### WHY IOREX IS DIFFERENT?

- Base technology: IOREX is NOT a sacrificial anode-based, magnet-based, or coil-based technology.
- Energy Consumption: IOREX is Energy Neutral.
- Efficacy: Corrosion control, scale control and microbial control.
- Applications: IOREX works in all types of pipes.
- Consistency: Consistent effectiveness throughout its lifespan.
- IOREX converts rust into magnetite in iron and steel pipe.



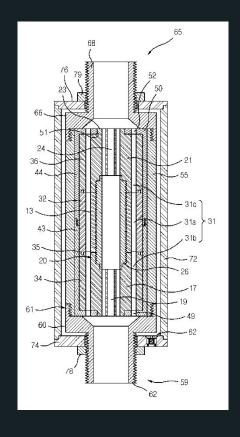




02 INNER CASING BRASS

03 OUTER CASING STAINLESS STEEL

04 OTHERS
RUBBER BEARINGS (2



## BI-DIRECTION AL



**INLET SIDE** 



**OUTLET SIDE** 

WATER SIMPLY FLOWS THROUGH THE DEVICE WITH NO LOSS OF PRESSURE

#### **TURBULENCE JET**



IONIZATION

## IOREX SOLUTION 3 TECHNOLOGIES IN 1 PRODUCT

FRICTION FROM WATER FLOW

Forms turbulence

Increases entropy

Establishes strong electrostatic field

#### SMALL WATER CLUSTER FORMED

Generates smaller hydrogen-bounded clusters

Favors isolation of mineral ions

Decreases scale formation potential

#### SIGNIFICANT ELECTROSTATIC POTENTIAL

**DIFFERENCE** 

Accumulates electrons

Delivers electrons to water

Promotes ionization



#### **IOREX Water Ionization Device** IOREX Co. Ltd.

Final Assembly: Jeonju, Jeollabuk, Republic of Korea

Life Expectancy: 25 Year(s)

End of Life Options: Salvageable/Reusable in its Entirety

EU CoC Screened: Does Not Contain

#### Ingredients:

Unnamed Material: Brass; Stainless Steel; Graphite; Polyethylene; Aluminum

#### Living Building Challenge Criteria: Compliant

#### I-13 Red List:

■ LBC Red List Free

% Disclosed: 100% at 100ppm

☐ LBC Red List Approved

□ Declared

VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable I-14 Responsible Sourcing: Not Applicable

XXX-XXXX EXP. 01 JUN 2022 SCREENED: 17 JUN 2021 Original Issue Date: 20XX

INTERNATIONAL LIVING FUTURE INSTITUTE" living-future.org/declare

#### **DECLARE LABEL**

#### ILFI

The International Living Future Institute (<a href="https://living-future.org/">https://living-future.org/</a>) mission is "is to lead the transformation toward a civilization that is socially just, culturally rich, and ecologically restorative."

#### **DECLARE LABEL**

The ILFI certifies certain products and systems which adhere to the criteria established by the ILFI as highly sustainable products and systems.

## 72-HOUR TEST ADDITION OF 400 PPM Ca+ as CaCl<sub>2</sub>

Dissolved iron in the water without the IOREX was 22 times greater by the end of the 72-hour test. In fact, there was a <u>slight decrease</u> in iron content in the water loop with the IOREX by the end of the test.



WITH IOREX



WITHOUT IOREX

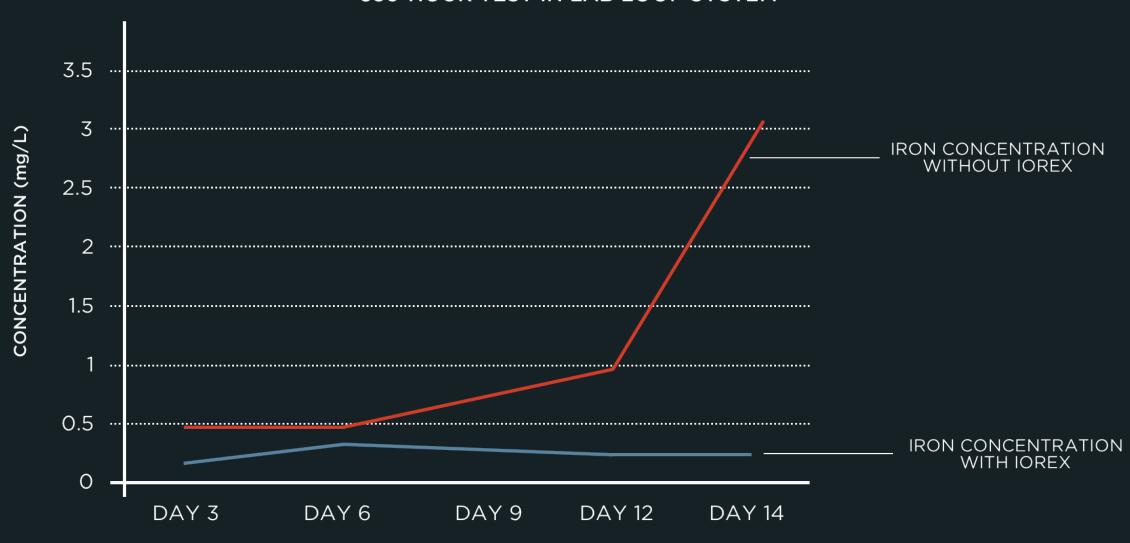




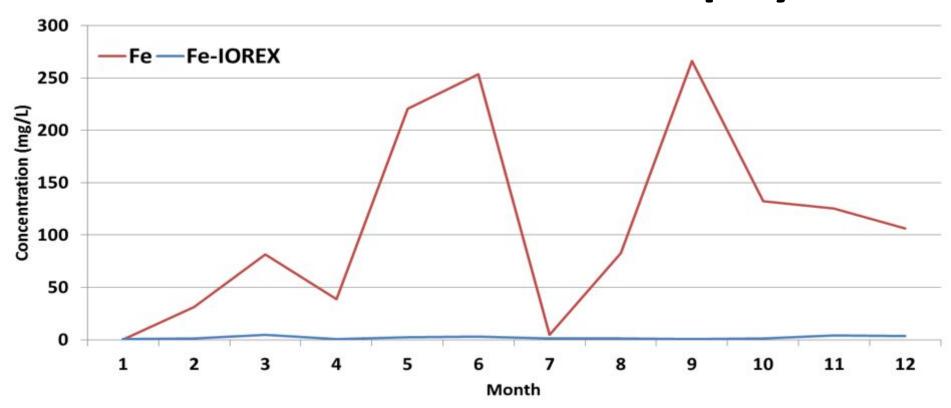
## 336-HOUR TEST LAB LOOP SYSTEM

There was 11 times more dissolved iron ions in the control group than in the treatment group with IOREX.

#### 336-HOUR TEST IN LAB LOOP SYSTEM



### 12-month test in lab loop system



"The metal ion concentration in the IOREX loop show little variability and never exceeded 5 mg/L; while the highest reading for the control loop was 266 mg/L."

## 12-MONTH TEST IN LAB LOOP SYSTEM

The test pipes exposed to the water loops with the IOREX had fewer visible pits, and the pits appeared to be smaller when compared to the pipe samples exposed to the control loop.

The water samples obtained from the loop without the IOREX had 55 times more dissolved iron ions when compared to the samples obtained from the loop with the IOREX.



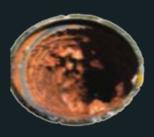
# 12-MONTH TEST IN LAB LOOP SYSTEM

SYSTEM
The initial deposits were akaganeite and lepidocrocite (forms of hydrated iron oxide).
The XRD analysis revealed that by the end of the test the deposits consisted mostly of magnetite ( $Fe_3O_4$ ).

The pH values remained relatively constant throughout all the experiments with no clear trends of change.



**BEFORE** 



**6 MONTHS** 



**12 MONTHS** 



# IOREX CONVERTS RUST INTO MAGNETITE

Coats the inside of a pipe, helping to prevent pinhole leaks and sealing existing ones. Extends the pipe lifespan by more than 2 times.



WWW.IOREXGLOBAL.COM