

NATIONAL BRAND (216 LOCATIONS) AND PH7X PROOF OF CONCEPT

OBJECTIVE: TO DEMONSTRATE PH7X'S NON-CAUSTIC CLEANING POWDER WILL CLEAN DRAFT BEER LINES BETTER AND SAFER THAN THE CAUSTIC SODA + ACID CURRENTLY BEING USED AT BJ'S



THE SOUL OF A BREWHOUSE

SNP Distributors April 2024

April 2nd Culver City - First Clean

METHODOLOGY

Deep Clean Protocol

2% **pH7X** - 45 minutes recirculation

- **Committed Double IPA**
- **Oasis Amber Ale**
- **Enchantress Pilsner**
- **Prickly Pear Lemonade**

5 gallons for four beer lines

.84 lb (380 grams) **pH7X** = 2% concentration

ATP tests before and after on the rinse water and faucets

DIP slides before and after on the rinse water



April 2nd Culver City - First Clean

ATP TEST RESULTS

Beer Lines Cleaned - pH7X	ATP Faucets	ATP Rinse Water
Committed - Dbl IPA		
Before	4579	3
After	36	6
Oasis - Amber Ale		
Before	4031	26
After	12	1
Enchantress - Bohemian Pilsner		
Before	1316	12
After	75	4
Prickly Pear - Lemonade		
Before	1100	543
After	20	6



April 2nd Culver City - First Clean

DIP SLIDE TEST RESULTS

Beer Lines Cleaned - pH7X

Dip Slides (Rinse Water) 2 Weeks

Committed - Dbl IPA

Aerobic Microbes TVC

Yeasts and Molds

Before

MODERATE - 10,000

None Visible

After

LIGHT - 1,000

None Visible

Oasis - Amber Ale

Before

VERY LIGHT - 100

HEAVY - Muco spp., Candida

After

VERY LIGHT - 100

None Visible

Enchantress - Bohemian Pilsner

Before

LIGHT - 1,000

None Visible

After

LIGHT - 1,000

None Visible

Prickly Pear - Lemonade

Before

MODERATE - 10,000

HEAVY - Penicillium notatum

After

LIGHT - 1,000

None Visible

TVC (approx. colony count per ml)

No incubation. Study done at room temp. 70°



April 2nd Culver City - First Clean – RESULTS – 2 weeks post clean

April 2nd PRE 45 min 2% pH7X
soak Aerobic Microbes TVC



April 2nd POST 45 min 2% pH7X
soak Aerobic Microbes TVC



Committed PRE 45 minute 2%
pH7X soak with water in line/fob



Committed POST 45 minute 2%
pH7X soak with water in line/fob



April 2nd PRE 45 min 2% pH7X
soak Yeast and Molds



April 2nd POST 45 min 2% pH7X
soak Yeast and Molds



Oasis PRE 45 minute 2% pH7X
soak with water in line/fob



Oasis POST 45 minute 2% pH7X
soak with water in line/fob



April 2nd Culver City - First Clean – RESULTS – 2 weeks post clean

Committed PRE 45 minute 2% pH7X soak with water in line/fob



Committed POST 45 minute 2% pH7X soak with water in line/fob



April 17th Culver City - Second Clean

METHODOLOGY

Standard Cleaning Protocol

1% **pH7X** - 15 minutes recirculation

- Committed Double IPA
- Oasis Amber Ale
- Enchantress Pilsner
- Prickly Pear Lemonade

5 gallons for four lines

.42 lb (190 grams) pH7X = 1% concentration

ATP tests before and after on the rinse water and faucets

DIP slides before and after on the rinse water



April 17th Culver City - Second Clean

ATP TEST RESULTS

Please note how much lower the faucet "before" values are on the Committed (4,579) and Oasis (4,031) that's **pH7X** at work!

Beer Lines Cleaned - pH7X	ATP Faucets	ATP Lines (Rinse Water)
Committed - Dbl IPA		
Before	68	2
After	14	0
Oasis - Amber Ale		
Before	29	2
After	0	0
Enchantress - Bohemian Pilsner		
Before	1129	2
After	51	1
Prickly Pear - Lemonade		
Before	1024	155
After	15	4



April 17th Culver City - Second Clean

DIP SLIDE TEST RESULTS

Beer Lines Cleaned - pH7X

Dip Slides (Rinse Water) 2 Weeks

Committed - Dbl IPA

Aerobic Microbes

Yeasts and Molds

Before

MODERATE - 10,000

None Visible

After

LIGHT - 1,000

None Visible

Oasis - Amber Ale

Before

VERY LIGHT - 100

HEAVY - Muco spp., Candida

After

VERY LIGHT - 100

None Visible

Enchantress - Bohemian Pilsner

Before

LIGHT - 1,000

None Visible

After

LIGHT - 1,000

None Visible

Prickly Pear - Lemonade

Before

MODERATE - 10,000

HEAVY - Penicillium notatum

After

LIGHT - 1,000

None Visible

TVC (approx. colony count per ml)

No incubation. Study done at room temp. 70°



COMPARATIVE CLEAN ATP RESULTS



Beer Lines Cleaned	ATP	ATP Lines
pH7X Results	Faucets	(Rinse Water)
Piranha - Pale Ale		
Before	752	3
After	1	0
Jeremiah Red - Ale		
Before	45	5
After	0	1
15-minute recirculation clean		
Beer Lines Cleaned -	ATP	ATP Lines
BJ's 2-Step Results	Faucets	(Rinse Water)
Harvest - Hefeweizen		
Before	6703	9
After	2	0
Brewhouse - Blonde		
Before	177	6
After	0	0
15-minute recirculation clean		
15-minute acid clean		

April 17th Culver City

COMPARATIVE CLEAN DIP SLIDE RESULTS



Beer Lines Cleaned
pH7X Results
Piranha - Pale Ale

Dip Slides (Rinse Water) 2 Weeks
Aerobic Microbes - TVC Yeasts and Molds

Before	LIGHT - 1,000	LIGHT - Mucor spp., Candida spp.
After	None visible	None visible

Jeremiah Red - Ale

Before	LIGHT - 1,000	MEDIUM - Mucor spp., Candida spp.
After	None visible	LIGHT - Mucor spp., Candida spp.

15-minute recirculation clean

Beer Lines Cleaned -
BJ's 2-Step Results
Harvest - Hefeweizen

Dip Slides (Rinse Water) 2 Weeks
Aerobic Microbes - TVC Yeasts and Molds

Before	HEAVY - 100,000	HEAVY - Aspergillus flavus
After	LIGHT - 1,000	LIGHT - Aspergillus flavus

Brewhouse - Blonde

Before	MODERATE - 10,000	HEAVY - Aspergillus flavus
After	None visible	MEDIUM - Aspergillus flavus

15-minute recirculation clean

15-minute acid clean

No incubation

Study done at room temp. 74°

April 17th Culver City – Comparative Dip Slide – RESULTS

BJ's 15 min 1% Caustic Recirc + 15 min Acid Recirc

PRE-Clean Rinse Water After 2 Weeks
Aerobic Microbes-TVC



POST Clean Rinse Water After 2 Weeks
Aerobic Microbes-TVC



SNP's 15 min 1% pH7X Recirc

PRE-Clean Rinse Water After 2 Weeks
Aerobic Microbes-TVC



POST Clean Rinse Water After 2 Weeks
Aerobic Microbes-TVC



PRE-Clean Rinse Water After 2 Weeks
Yeast & Molds



POST Clean Rinse Water After 2 Weeks
Yeast and Molds



PRE-Clean Rinse Water After 2 Weeks
Yeast & Molds



POST Clean Rinse Water After 2 Weeks
Yeast and Molds



SUMMARY

PH7X POWDER WORKS

We have successfully demonstrated that **pH7X** cleans BJ's draft beer lines in Reno, Chandler, Mesa, West Covina and now Culver City.

SAFER FOR BJ's CUSTOMERS

No risk of a "mistake" causing injury or even death ...with caustic out of BJ's Brewpubs.

WHY RISK IT?

Every time you clean your lines with caustic you are exposing BJ's to a potential lawsuit.

SAFER FOR BJ's EMPLOYEE'S

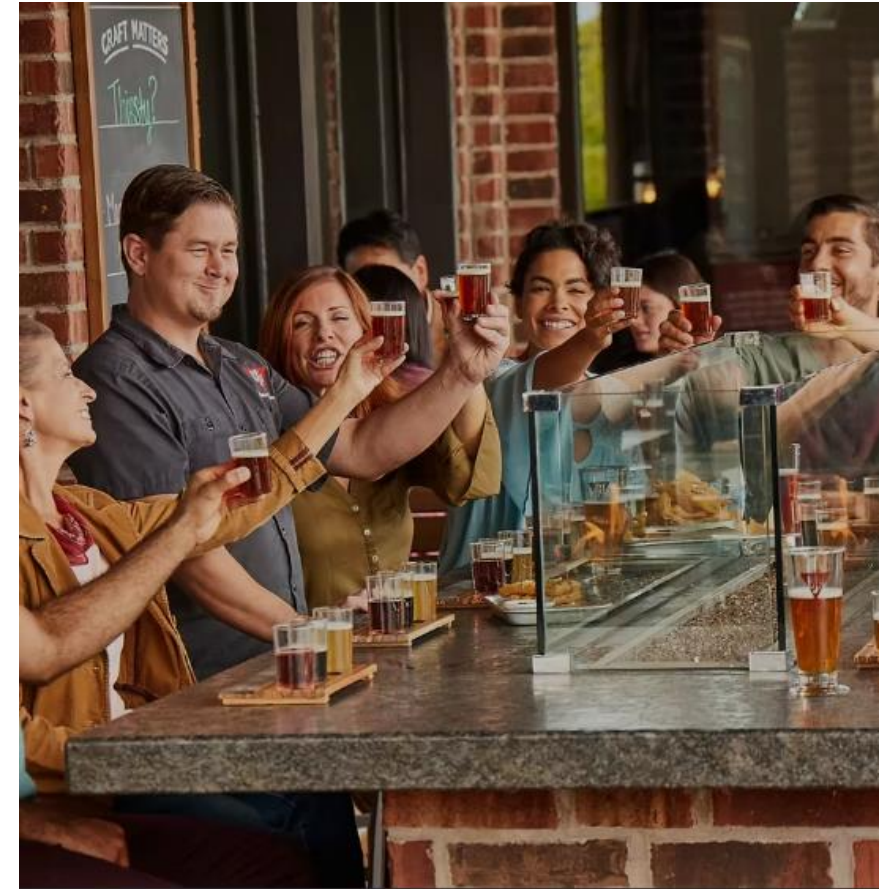
No more exposure to caustic.

BETTER FOR THE ENVIRONMENT

Instead of caustic, **pH7X** quickly breaks down to sodium in the discharge water.

BETTER FOR BJ's BOTTOM LINE

- Reduced Costs
- Easier on your Equipment
- Reduced Liability
- Lower Workers Comp
- Higher Beer Sales



AND THE BEER TASTES BETTER!!



**RESTAURANT
BREWHOUSE**

WHAT'S NEXT



-
- ONBOARDING AT EDWARD DON
 - ADDING DYE TO THE FORMULA
 - IMPLEMENTATION PLANNING
 - ESTIMATED USAGE THRU 2024
 - Q3 NEEDS
 - DEVELOPMENT OF TRAINING MODULES
 - ONLINE TRAINING
 - VIDEO
 - ONSITE

