

LIFE AND HEALTH ENHANCING

WET'S ON-SITE MULTI-STAGE WATER TREATMENT AND PURIFICATION **PROCESSES:**

CHLORINATION: We begin with municipal chlorinated water. While Chlorine does kill dangerous bacteria, how does it know the difference from friendly bacteria needed for proper human digestion? Chlorine has been found to combine or react with organic compounds to produce carcinogens such as bromoform, chloroform and THM's. Chlorine, bromine and other unstable oxidants such as Ozone are used for shelf-life enhancement in many bottled waters. (SEE #4 BELOW)

ADSORPTION FILTRATION media certified for water treatment plant applications; aids in removing turbidity.

ION EXCHANGE removes corrosive scale such as inorganic lime, calcium, magnesium, heavy metals and radiation if or when it may appear. Inorganic compounds that are removed are similar to the composition found in kidney stones. These compounds are **not** removed in MOST soda fountain beverages or in many bottled waters such as mineral water or spring water. **Nu-EdenpurE™ WATER**, with an added equipment component for home theater post mix beverage dispensing is PROVEN to consistently meet or exceed optimum carbonation for national brand soda fountain syrup-blended beverages.

CATALITIC OXIDATION: This process **removes** Chlorine previously added (Not removed in most soda fountain offerings using municipal water) and various sizes of physical and sediment impurities. This adsorption media aids in further turbidity removal and to protect against off tastes and odors.

CHLORINE SCAVENGER medium is a patented high purity copper/zinc alloy that alters the chemistry of water to enhance naturally occurring oxidation-reduction reactions. It is also a bacteriostatic medium that raises the pH. **Nu-EdenpurE™ WATER** is generally alkaline rather than acid, such as comes from former conventional soft water systems and especially reverse osmosis produced water.

GAC carbon block five micron filter is positioned to pick up any tastes, odors or particulate that may have some way originated in-line.

GAC - Granular Activated Carbon is one of the most powerful and efficient methods for improving drinking water quality. The table shows many of the problems that are addressed by GAC. Keep in mind that with municipally treated water it is highly unlikely that the majority of these contaminants will ever be present. Chlorine, its derivatives and their reaction with organic compounds occurring in municipal water is the primary concern. Carcinogenic compounds are created such as THM's (Trihalomethane) & PCB's (poly chlorinated biphenyl). As shown, GAC is excellent at treating these problems.

Acetaldehyde	4	Emulsions	2	Lead	3	Precipitated Sulfur	2
Acetic Acid	3	Ethyl Acetate	5	Lime	0	Propiolic Acid	4
Acetone	4	Ethyl Acrylate	5	Mercaptans	4	Propionaldehyde	3
Alcohols	4	Ethyl Alcohol	4	Metal Salts	1	Propyl Acetate	4
Alkalinity	1	Ethyl Amine	4	Methyl Acetate	4	Propyl Alcohol	4
Amines	3	Ethyl Chloride	4	Methyl Alcohol	4	Propyl Chloride	4
Ammonia	1	Ethyl Ether	4	Methyl Bromide	5	Radon	4
Amyl Acetate	5	Fertilizers	1	Methyl Chloride	4	Rubber Hose Taste	5
Amyl Alcohol	5	Flourides	2	Methyl Ethyl Ketone	5	Sea Water	1
Antifreeze	4	Formaldehyde	2	Naptha	5	Sediment	2
Arsenic	1	Gasoline	5	Nitrates	0	Soap	3
Benzene	5	Glycols	5	Nitric Acid	3	Sodium Hypochlorite	5
Bleach	5	Hardness	0	Nitrobenzene	5	Soluble Iron	2
Boron	1	Heavy Metals	3	Nitroluene	5	Solvents	4
Butyl Alcohol	5	Herbicides	5	Odors (general)	5	Sulfuric Acid	1
Butyl Acetate	5	Hydrogen Bromide	2	Oil - dissolved	5	Sulphonated Oils	4
Calcium Hypochlorite	5	Hydrogen Chloride	1	Oil - Suspended	2	Suspended Matter	2
Carbon Dioxide	0	Hydrogen Flouride	1	Organic Acids	4	Tannins	4
Chloral	5	Hydrogen Iodide	2	Organic Esters	5	Tar Emulsion	4
Chloramine	4	Hydrogen Peroxide	5	Organic Salts	4	Tartaric Acid	4
Chloroform	5	Hydrogen Selenide	3	Oxalic Acid	5	Taste (DI Water)	4
Chlorine	5	Hydrogen Sulfide	3	Oxygen	5	Taste (From Organics)	4
Chlorobenzene	5	Hypochlorous Acid	5	Ozone	4	THM's	5
Chlorophenol	5	Inorganic Acids	1	PCB's	5	Toluene	5
Chlorophyll	4	Inorganic Chemicals	1	Pesticides	5	Toluidine	5
Citric Acid	4	Insecticides	5	Phenol	5	Trichlorethylene	5
Cresol	5	Iodine	5	Phosphates	0	Turpentine	5
Defoliant	5	Isopropyl Acetate	5	Plastic Taste	5	Urine	2
Detergents	3	Isopropyl Alcohol	5	Plating Wastes	3	Vinegar	3
Diesel Fuel	5	Ketones	5	Potassium Permanganate	4	Xanthophyll	4
Dyes	5	Lactic Acid	4	Precipitated Iron	2	Xylene	5

0 – Not an application for GAC
 1 – POOR not recommended use
 2 – FAIR limited use

3 – GOOD very acceptable results
 4 – VERY GOOD a proven application
 5 – EXCELLENT a proven application

Sanitizing performance is certified to NSF (National Sanitation Foundation) standards for purification; kills microbes, water-borne pathogens, E-coli, Giardia, Cryptosporidium, etc.

This process meets the definition of purified water under the United States Pharmacopeia's standards.

Water from this process qualifies under FDA standards as a VERY LOW SODIUM BEVERAGE.

Nu-EdenpurE™ WATER is made **fresh on-site and on-demand containing no shelf-life enhancers;**

All mechanical components and consumables are NSF certified.

WARNING: Because there are no shelf-life enhancers or chlorine in the final purified water product, care should be taken to NOT store in warm lighted areas for extended periods of time. Bottles/containers used by resident home-owners and/or tenants for this purified water, whether refrigerated or not, should be washed and sanitized regularly to *avoid possible contamination and/or a bacteria growth environment that could externally pollute the purified water.* Faucets that are not used for extended periods of time (one or more months) should be allowed to run for three or more minutes to wash out any contamination that may originate from within the piping itself (like lead- used prior to 1986) or organisms that may find an external way in from the outlet.