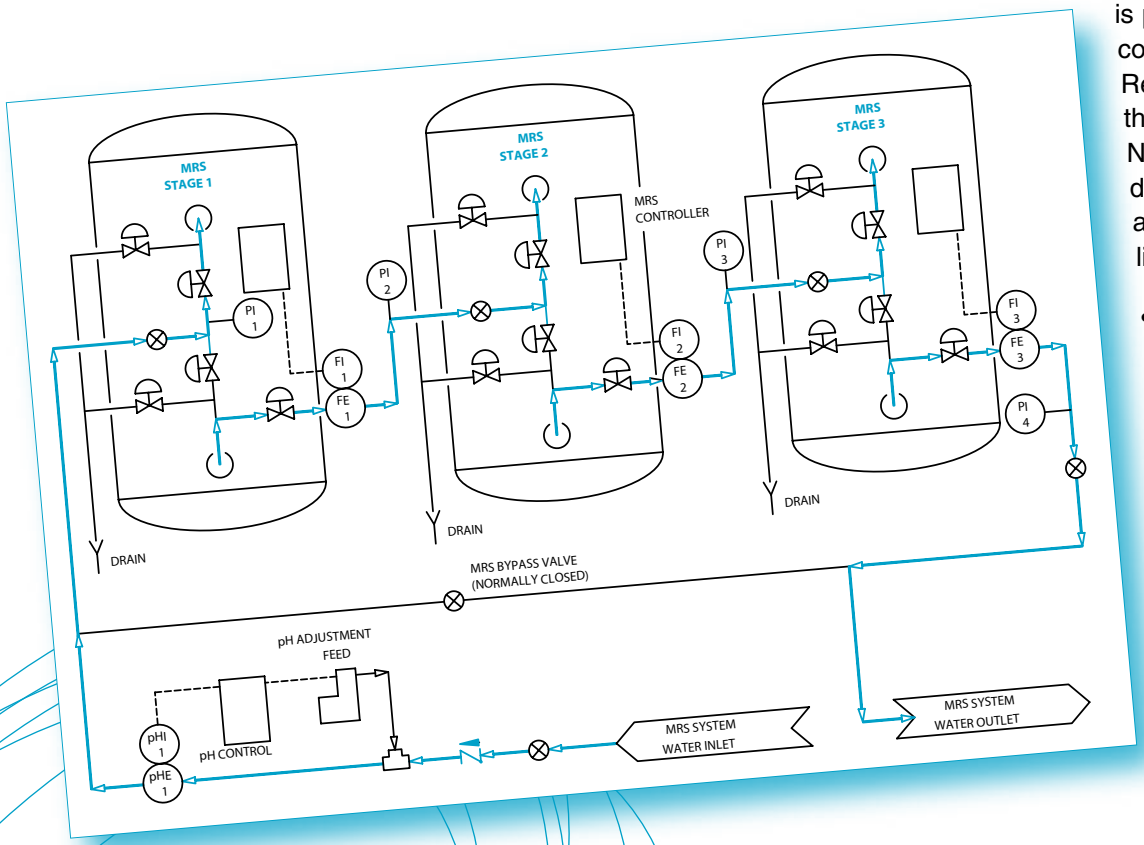
Metals Removal System



PLYMOUTH TECHNOLOGY, INC.

is pleased to provide a comprehensive Metals Removal System (MRS) that will enable you to meet NPDES and local POTW discharge regulations; both now and with the anticipated lower limits of the future.

- **Proven Results**
- **Greatest Versatility**
- **Works with Existing WWT Systems**
- **Compliance Solution that fits into your budget**

Lower local and federal industrial waste water discharge regulations and more difficult waste streams have resulted in higher waste treatment costs and ongoing compliance struggles.

FEATURE	BENEFIT
PREENGINEERED DESIGN –	Skid mounted and ready to install. Pre-engineered for easy hook-up; virtually plug and play with simple plumbing hook ups. You can get your system into compliance FAST!
PATENT PENDING MEDIA	Plymouth Technology's patent pending adsorbent media provides unprecedented metals removal. Media locks metals so tightly that spent media typically passes a TCLP and can be discarded with your non-hazardous sludge.
COMPACT DESIGN	The standard MRS dimensions permit installation in limited floor space. Additionally, vertical configurations can be utilized where floor space is severely limited

REMARKABLE COMPLIANCE RESULTS

This patent pending technology was developed by Plymouth Technology in response to industry requirements.

MRS Technology has proven to provide such dramatically lower metals levels that compliance with discharge regulations is virtually guaranteed!

VERSATILE LONG TERM SOLUTION

Metals Removal Systems are designed to accommodate changes in process chemistry and discharge requirements. This comprehensive solution works to vastly reduce the waste treatment headaches caused by process changes.

Furthermore, additional systems can be added in parallel or in series in response to plant expansion or volume increases.

PLYMOUTH TECHNOLOGY

COMPLIMENTS YOUR EXISTING WWT SYSTEM

MRS works with your existing conventional waste water treatment system to bring your plants performance to a new level by:

- *DECREASING TREATMENT COSTS*
- *IMPROVING FINAL EFFLUENT CONSISTENCY*
- *RADICALLY REDUCING DISCHARGE METALS*

COMPLIANCE THAT YOU CAN AFFORD

MRS is designed specifically for metals removal and will often result in reduced chemical treatment costs.

At a fraction of the cost of Ultrafiltration, MRS media is readily replaceable without the exhorbitant cost of replacing an ultrafilter column.

Unlike RO Systems that require additional chemicals and generate a reject waste stream, Metals Removal Systems utilize a backwash system that requires only water.

For more information on how Plymouth Technology's Metals Removal Systems can help you meet existing or proposed industrial pretreatment discharge limits, please contact us:

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Treatment Results

Would you like to see these results from your Waste Water Treatment System?

		Customer Effluent	Effluent from MRS	MDL
Antimony	(Sb)	<0.09	<0.09	0.09
Arsenic	(As)	0.079	<0.05	0.05
Barium	(Ba)	<0.03	<0.03	0.03
Cadmium	(Cd)	0.945	<0.01	0.01
Chromium	(Cr)	0.035	<0.02	0.02
Chromium-Hex	(Cr6)	<0.006	<0.006	0.006
Cobalt	(Co)	0.272	<0.02	0.02
Copper	(Cu)	0.16	<0.02	0.02
Iron	(Fe)	9.12	<0.03	0.03
Lead	(Pb)	0.278	<0.09	0.09
Molybdenum	(Mo)	12.8	0.751	0.08
Mercury	(Hg)	<0.20	<0.20	0.2
Nickel	(Ni)	5.46	<0.03	0.03
Selenium	(Se)	0.102	<0.08	0.08
Silver	(Ag)	<0.05	<0.05	0.05
Tin	(Sn)	0.122	<0.08	0.08
Titanium	(Ti)	<0.08	<0.08	0.08
Vanadium	(V)	<0.01	<0.01	0.01
Zinc	(Zn)	2.4	<0.02	0.02

*MDL = minimum detection limit for test method

SELECTING THE RIGHT SYSTEM

The first step in selecting the optimal Metals Removal System for your facility involves a simple lab study to test for metals removal efficacy.

Specific system performance parameters are then designed to meet your plant's influent characteristics and discharge requirements.

The lab results in the table above document actual *EPA approved independent lab* results demonstrating the dramatic results that you can expect from the Metals Removal System.

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