



# AQUAFIX Inc.

*Innovations in  
wastewater treatment.*

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## TECHNICAL UPDATE

# VITASTIM REFINERY

VitaStim Refinery is used to degrade petroleum hydrocarbons in wastewater treatment plants. It provides a rich source of 23 vitamins and minerals to infuse bacteria and stimulate healthy and productive cell development. The micronutrients in VitaStim Refinery are extremely important to biological performance under these conditions in refineries, and if used properly these bio-stimulants and vitamins will improve settling, reduce effluent BOD, reduce sludge production, and limit filaments and foaming.

VitaStim Refinery contains a biological stimulant that increases cell metabolism in naturally-occurring microorganisms. In addition, select petroleum hydrocarbon-degrading bacteria cultures are added.

Industrial and commercial wastewater treatment plants are notably deficient in micronutrients. However, most often this is overlooked because we often focus just on macro-nutrient levels. Years of involvement with wastewater treatment plants, municipal and industrial customers have proven that with our potent VitaStim products, biological wastewater treatment plants run better.

### Works in:

- Industrial Wastewater Treatment Plants
- Commercial Wastewater Treatment Plants

### Helps/Fights:

- Total Petroleum Hydrocarbons
- Degrade oil chemistries
- Offset toxicity from hydrocarbons
- Fuel oil #1 and Fuel oil #2
- Land application when get petroleum
- Oil soil remediation





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# DOSE RATES

VitaStim Refinery in WWTP		
Flow Rate	Initial Dose Once per day 30 Days	Maintenance Dose Once per day 30 Days
100 TGD	0.5#	0.5# every other day
200 TGD	1#	0.5#
300 TGD	1.5#	0.5#
400 TGD	2#	1#
500 TGD	2.5#	1#
600 TGD	3#	1.5#
700 TGD	3.5#	1.5#
800 TGD	4#	2#
900 TGD	4.5#	2#
1 MGD	5#	2.5#

**Soil Rehabilitation:** Add 1# to 3# per 100 cubic feet. Moisten soil and till. Keep the soil warm and rotate the pile monthly. In cold climates cover with plastic tent to increase soil temperature.