



Be Right™

# ENVIRONMENT WQG PORTFOLIO OVERVIEW 2018

SUDHIR SINGH

BUSINESS MANAGER HACH- ENVIRONMENT WQG PORTFOLIO

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# HACH MULAGOHILL

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## Environmental

### Water Quality



### Gilbarco Veeder-Root



## Test & Measurement

### Communications



### Instruments



## Dental

### Dental



## Life Sciences & Diagnostics

### Diagnostics



### Life Sciences



## Industrial Technologies

### Product ID



### Automation

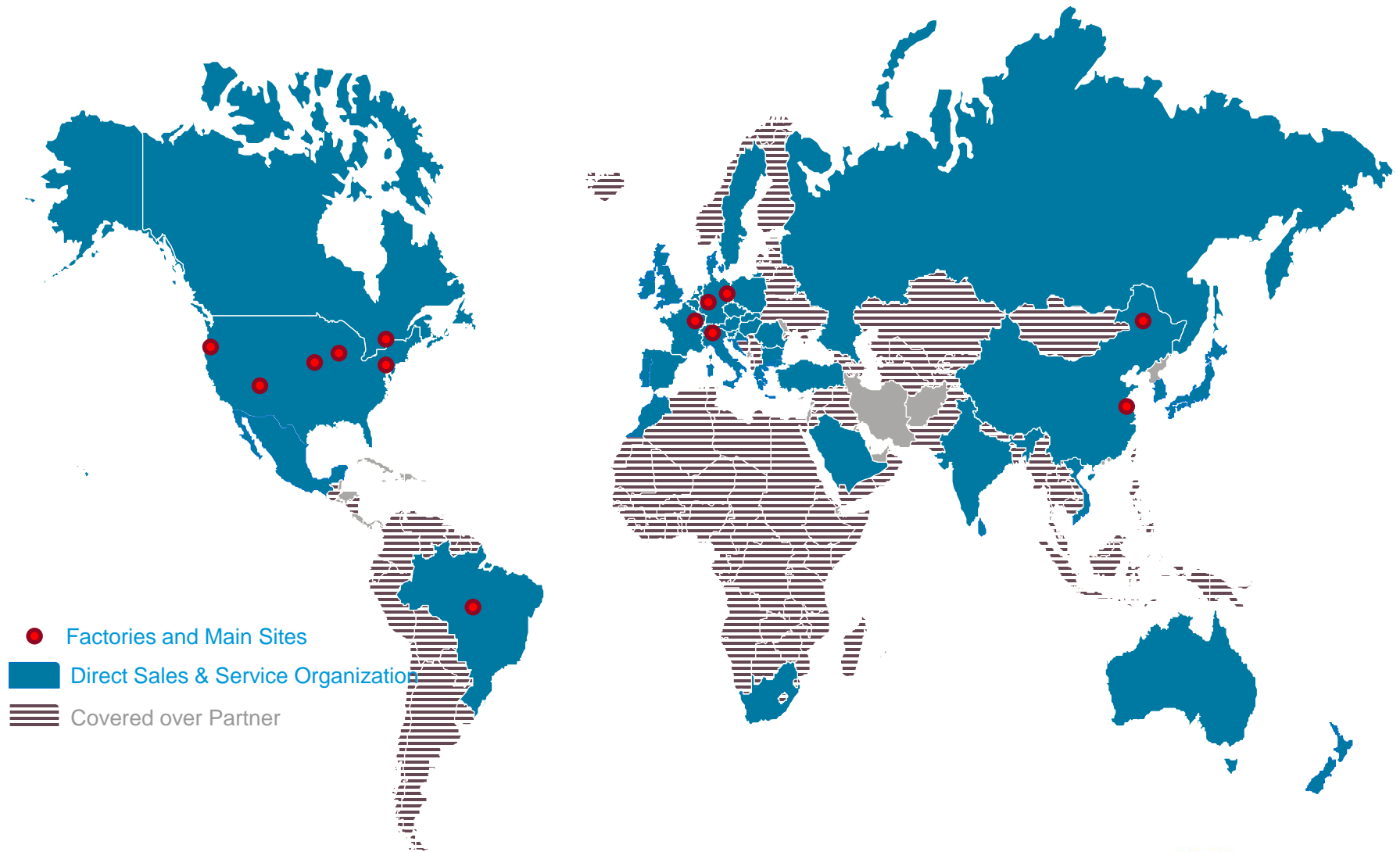


# WHO IS HACH?

- Global organization with more than **40 years of experience** developing products for the beverage industry.
- A complete portfolio of solutions for all applications including **water, & beer, soft drink, juice and wine.**
- **Knowledgeable and responsive support teams focused on fast, local service** with the global application knowledge to solve even the most difficult problems.
- Focus on providing **high quality products** which can withstand harsh production environments, supported by local engineers and application specialists to ensure reliability and accuracy.



# GLOBAL FOOTPRINT





# WATER QUALITY GROUP WHERE DO WE PLAY



# WHAT TYPE OF WATER CAN BE TESTED?

- **Surface Water**
- **Groundwater**
- **Municipal Drinking Water**
- **Municipal Waste Water/  
Effluent**
- **Treated Municipal Water**
- **De-aerated Process Water**
- **Boiler Feed Water**
- **Cooling Water**
- **Bottled Water**
- **Other Water**



# WATER QUALITY: INLINE SENSORS AND PROCESS ANALYZERS

**Alkalinity:** APA6000

**Chlorine:** CL17

**Conductivity:** D3455

**Hardness:** SP510

**Oxygen:** LDO Systems

**pH:** DPD1P1 Sensor

**TOC:** 3500e

**Turbidity:** TU5300

**Nitrates /Ammonia / Phosphates  
/ COD :Nitratax**





## TURBIDITY METERS



**TU5200**



**2100Q**

**360° x 90° Detection Technology**

EPA (0 – 700 NTU)

ISO (0 – 1000 NTU)



## TURBIDITY METER



TL23

EPA (0 – 10 000 NTU)  
ISO (0 – 10 000 NTU)

NTU, EBC, ABS,

## SPECTROPHOTOMETERS / COLORIMETERS



**DR900**



**DR1900**



**DR3900**

### Results:

- Alkalinity
- Aluminium
- Ammonia
- Bromine
- Chloride
- Chlorine Dioxide
- Chlorine
- COD
- Fluoride
- Iron
- Nitrate
- Potassium
- Sulfate
- Trihalomethanes

## pH/ mV/ Conductivity/ TDS/ ORP/ ISE/ Salinity/ Resistivity



HQ440D



HQ40D



## AUTOMATIC TITRATION



AT1000

### Results:

- Alkalinity
- Acidity
- Chlorine, Free and Total
- Chloride
- Conductivity
- Hardness
- pH
- Sulfur Dioxide, Free and Total
- Total Acid Number

## TOTAL ORGANIC CARBON



**QBD1200**



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