



Jordive Limited

Remote Removal of Water Storage Tank Sediment

2013 Clean and Safe Drinking Water Conference (Gander, NF)
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A bit of history...

- o Est. 1974, became Jordive Limited in 1986
- o Potash removal from rail cars in Saint John River, 1987
- o Successful use of airlifts (4" – 14") for sediment removal from ocean and river beds
- o Successful methods of sediment removal in various industrial and potable water settings



Adaptive & Innovative

“Every move we’ve made has been to meet a need.”

- o Custom fabrication of inspection equipment for pipelines
- o Development of slurry technique to remove potash from submerged rail cars
- o Design and fabrication of 14” air lift to remove sediment from ocean and river beds

More needs we've met...

- o Remote removal of mussel shells and heavy sediment from intakes and screens
- o Detection and repair of leak in potable water storage tank

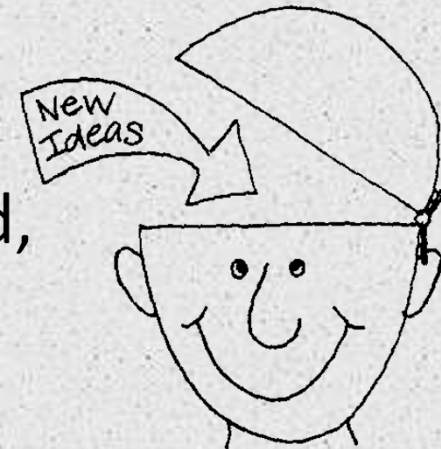


Remote Leak Detection



What brought us here...

- o Success in remotely removing of up to 4' of sediment from bottoms of municipal water tanks and storage facilities and in industrial settings
- o New Brunswick, Newfoundland, Nova Scotia, Ontario
- o Minnesota, North Dakota





“BEFORE & AFTER”



Why clean?



- o Sediment settles on bottom of tanks over time
- o Bacteria grows between layers of sediment
 - o If tank is before treatment plant - increased use of chemicals to make water safe for drinking
 - o If tank is after treatment plant – bacteria finds its way into water system
- o Regular inspection is important



Potable Water Cleaning

- o Traditional methods:

- o Divers in tank with suction hoses from vac trucks and manual cleaning of tank

- o **Time consuming and costly**

- o Tank taken out of service and dewatered; manual cleaning; requires secondary source of water

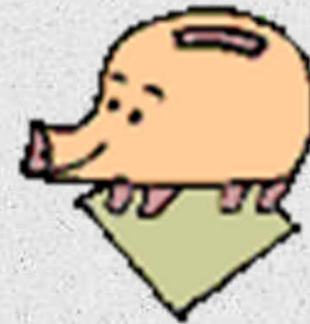
- o **Time consuming and costly**



Jordive's Method:

A cost-effective alternative

- o Interruptions to your operations are kept to minimum
 - o In most cases, tank can remain in service
- o We remotely remove sediment
- o Work requires very few personnel
 - o nobody has to enter the tank
- o Cleaning can occur 24-7 if needed
- o Video of cleaning is supplied
- o We can assist you in developing a cleaning schedule to help maintain the quality of service you provide



Jordive's System of Removal

- o Remotely operated crawler tracks carry a specially designed body for cleaning sediment at bottom of tank
- o 3 crawler bodies to choose from



Hydraulic Power Pump Crawler Body

- o 3" hydraulic trash pump
- o Suction rate of 400 gallons per minute
 - o Up to 25% solid material
- o Runs on completely biodegradable hydraulic oil (100% potable water safe)
- o Fits in standard 24" x 24" tank entrance

Hydraulic Pump Crawler



3" External Pump Crawler

- o 3" external trash pump
 - o Sets up outside the tank entrance
- o Suction rate of 200-250 gallons a minute
 - o Approximately 15% solid material
- o Effective in up to 10" of heavy sediment
 - o 18" of light sediment
- o Fits into 23" x 22" tank entrance

2" External Pump Crawler

- o 2" external trash pump
 - o Sets up outside tank entrance
- o Suction rate of 150-200 gallons per minute
 - o Approximately 10% solid material
- o Effective in sediment up to 12" deep
- o Fits in tank entrance as small as 16" x 16"

2" External Pump Crawler





**THANK
YOU**

