

A Comprehensive Approach to
Remediation Technologies



The central graphic is a circular collage of images representing different water remediation technologies. The central text reads "from Source to Solution" with the newterra logo below it. The collage is divided into segments, each labeled with a specific technology:

- STORMWATER**: Shows a blue container with a yellow filter media inside, used for stormwater treatment.
- REMEDIAION**: Shows a large industrial facility with several tall, cylindrical storage tanks and yellow scaffolding.
- INDUSTRIAL WASTEWATER**: Shows a large, open area of reddish-brown earth with heavy machinery, likely involved in site remediation or construction.
- DOMESTIC WASTEWATER**: Shows a white container with a green roof, used for domestic wastewater treatment.
- POTABLE WATER**: Shows several large, white, cylindrical storage tanks with the newterra logo, used for storing treated water.
- MEDIA SERVICES**: Shows a close-up of numerous grey, cylindrical filter media components.
- INDUSTRIAL WATER**: Shows a complex industrial water treatment system with multiple large, white, cylindrical filter housings and associated piping.

▶ Contaminants in the water and soil never have to be a hurdle



As the global landscape evolves, so do the challenges we face in managing and remediating contaminated sites to not only address environmental concerns but also pave the way for a cleaner, healthier planet.

Newterra brings together a team of dedicated professionals, effective technologies, and a passion for creating positive change. We recognize the urgency of tackling environmental issues, and our mission is to provide cost-effective and tailored remediation solutions that go beyond industry standards.

Whether it's water, soil, or vapor remediation, we tailor our solutions to meet the unique challenges of each project, prioritizing sustainability and long-term environmental health.



A Newterra system is discharged for removal of TSS and concrete dust prior to discharging to the municipal sewer at a subway tunneling site

Get Remediation-Smarter!

Understanding Newterra Remediation Technology

Ensuring the progress of your project hinges on having a well-thought-out water cleanup plan in place. If you find yourself uncertain about the best approach for remediation, rest assured, we offer comprehensive and cost-effective solutions from inception to completion. Whether you're a contractor or consultant, our services are tailored to suit your needs. With dedicated field service expertise, access to lifecycle parts, and a wide range of equipment options, we're equipped to design and execute solutions that align perfectly with your long-term cleanup goals.

Customized Systems, Quality Technologies

Solutions for water remediation are not one-size-fits-all. Experts consider each unique aspect of your site and customize solutions to meet your goals. Whether you need skidded or enclosed systems, our broad spectrum of sophisticated technologies will effectively address any challenge.

Simplified Maintenance & Operations

The efficiency of your system directly impacts your project's budget and workforce's time. These operator-friendly systems provide ease of use for remediation. Each solution requires little ongoing maintenance, allowing you to save on time and costs.

Inclusive Service & Support

Newterra is here for you for every phase of water remediation. Our team provides everything from on-site services to a lifecycle parts department and operator training to ongoing support.

A Wide Range of Capabilities

From simple indoor facilities to complex outdoor systems, we handle every step of the cleanup process in-house. With streamlined assembly and expertise in difficult contaminants and flow rates, we ensure efficient remediation. As equipment suppliers, we guarantee your long-term success with custom-designed solutions tailored to your budget. Newterra offers cost-effective remediation solutions for various challenges including groundwater, water repurposing, volatile organic compounds, chlorinated solvents, TSS reduction, PCB removal, soil vapor extraction, and odor removal.

Ultrafiltration, utilizing a semipermeable membrane, is a separation process employed in groundwater remediation to eliminate suspended solids, colloids, and large molecules from liquid streams, effectively treating contaminants in the groundwater.



A Newterra groundwater treatment is treating an area in Calgary, Canada that had become concentrated in solids due to its intimate contact with under-ground minerals over time. The treated water is then discharged back into the environment

Iron Removal Systems are frequently used in groundwater remediation to tackle iron presence, a notable groundwater contaminant. Elevated iron levels can cause aesthetic problems like undesirable tastes and odors, along with more substantial concerns regarding water quality.

Newterra LongBox® Clarifiers are primarily designed for the removal of suspended solids from water, and they are more commonly associated with surface water treatment plants. However, in certain groundwater remediation scenarios where suspended solids are a concern, clarifiers may be employed.

Soil Vapor Extraction (SVE), also known as **Vacuum Extraction** is a commonly used technology in groundwater remediation for the removal of volatile organic compounds



Newterra successfully tackled this comprehensive environmental remediation of acid water at the Kam Kotia Mine, which is widely considered to be amongst the worst environmental disasters in the Canadian province of Ontario

(VOCs) and certain semi-volatile organic compounds (SVOCs) from the subsurface.

Liquid Phase Adsorber Systems are widely used in groundwater remediation to treat contaminated water, employing adsorbent materials like activated carbon to capture and remove organic and inorganic pollutants from the liquid phase.

Vapor Phase Adsorber Systems are prevalent in groundwater remediation, targeting volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in contaminated groundwater vapor. These systems commonly employ adsorbent materials like activated carbon for capturing and removing contaminants from the vapor phase.

Comprehensive Solutions from One Provider

With technologies and services to meet just about any water-related need, Newterra can help you refine your strategies, streamline operations, and optimize operational costs.

Championing Environmental Responsibility

Align with a partner that doesn't just talk about sustainability but embeds it in every action. Choosing Newterra means choosing a future where business and environmental responsibility coexist.

[CLICK HERE](#) to learn more about **Newterra's Core values** and initiatives reflecting our commitment to sustainability.

[CLICK HERE](#) to learn more about **Newterra's commitment to Environmental, Social, and Governance (ESG) principles.**

Customer Success Comes First

Every challenge is unique, and Newterra has the expertise and resources to support you. Any vessel, any media-type, any application, our team collaborates with you to tailor your solution. Our goal is to ensure the optimal performance of your operation.

Engage with Ease

Initiating a partnership with Newterra is seamless. From a straightforward engagement form to prompt follow-ups, we prioritize your experience from start to finish.

[CLICK HERE](#) to get started by an expert team that **IS** committed to providing top-tier support and services for optimal operational efficiency.

We Deliver Exceptional Results

Our Commitment to Excellence is Reflected in Our Water Treatment Projects

Our installation projects exemplify our dedication to helping municipalities and industry achieve their own treatment and environmental initiatives with cutting-edge solutions for more clean and sustainable water. These initiatives are vital in addressing water scarcity and contamination challenges. By ensuring access to high-quality water, we contribute to a sustainable and water-secure future. We see each installation as being more than just a system, but a step towards healthier communities and a greener planet. (See list below some recent Remediation projects.)



Subway Dewatering

A major city's subway extension was built using a pit at several locations along the route and then tunneling between them. They both required dewatering before being discharged to the sewer above the limits. Because of the location of the pits in this busy metropolitan area, there was minimal footprint for the system.



Mining Wastewater

Canada's largest undeveloped gold reserve, started production in 2013. MBR technology was selected for wastewater treatment to meet strict environmental rules. Newterra provided a modular system for up to 1,500 people, scalable from 250, which was pre-assembled and engineered, reducing costs



Petrochemical Site

This site used high vacuum extraction via multiple wells to remove VOC-contaminated water and air. This contamination stems from activities such as storing, handling, and disposing of petroleum-based products or chemicals, presenting health and environmental risks by easily contaminating soil, groundwater, and air.



Groundwater Treatment

To address a pipeline leak and prevent contamination at a Gas Distribution Facility, Newterra installed groundwater-extraction wells with submersible pumps. The extracted groundwater was treated with an oil-water separator, air stripper, and media vessels for hydrocarbon removal, along with settling tanks and bag filters for suspended solids.



Iron Removal

The City of Belleville, Ontario was planning on redeveloping its downtown waterfront property into a public space containing a park and a green space. Unfortunately, the proposed site had a long history as an industrial site - initially for a coal gasification plant from 1854 to 1947 and then as a bulk oil storage facility from 1930 to 1990.



EPA Superfund Site

A Newterra solution helped clean up an EPA Superfund site listed on the National Priorities List, with Air Purification Systems playing a vital role. The landfill, amidst agricultural and commercial areas, held hazardous waste. Their remedy involved soil vapor extraction, drawing contaminants with a vacuum pump and passing them through an adsorber.

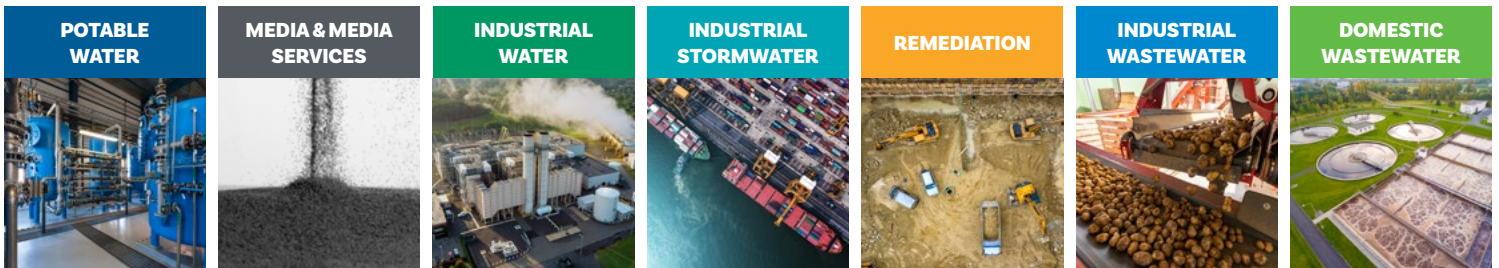
Hundreds of Installations Worldwide

A Robust Installation Base Effectively Servicing

Look to our experience in **Media & Media Services** and look to us as an invaluable partner for to make your job easier. Newterra's vast experience and large installation base and industry experience have historically cultivated essential relationships with our clients and suppliers, forming a relationship of collaboration and trust in new projects or partnerships.

See a sample project list below, showcasing our expansive offerings of Remediation solutions across many industries.

Year Supplied	Project Location	Market Served	Equipment Supplied	Contaminants Treated
2023	Ontario (Canada)	Construction Site	Groundwater Treatment System	Contaminated Groundwater
2023	Québec (Canada)	Aerospace Manufacturing	SSDS System	Contaminated Soils
2023	New Jersey (USA)		Liquid Phase Pressure Vessels & Cansorb Steel Vessels	Contaminated Groundwater
2022	Ontario (Canada)	Electrical Manufacturing Facility	Air Stripper & GAC Treatment System (300 GPM)	Contaminated Soils
2021	Ontario (Canada)	Oil & Gas Downstream Site	Multiphase Extraction System	Contaminated Soils
2021	Alabama	Oil & Gas Downstream Site	Ph Adjustment System	Contaminated Groundwater
2021	Québec (Canada)	Oil & Gas Downstream Site	Skidded Water Treatment System	Hydrocarbons
2021	Ontario (Canada)	Cement Manufacturer	Stormwater Treatment System	Suspended Solids & Organics
2021	New York (USA)	Pharmaceutical Manufacturing Campus	Remediation System	Contaminated Soils
2020	Washington (USA)	Superfund Site	NB-20 NIXTOX Box Adsorbents	Removal & Disposal of Drums of Hazardous Materials
2020	New York (USA)	Land Development Site	Soil Vapour Extraction System	Contaminated Soils
2019	Louisiana (USA)	Oil & Gas Refinery	Groundwater Treatment System (300 GPM)	TSS, Benzene, BTEX, Lead, and Polynuclear Aromatic Hydrocarbons
2019	Ontario (Canada)	First Nations Community	Groundwater Stormwater Treatment System	Contaminated Groundwater
2018	Argentina	Agricultural/Heavy Equipment Manufacturing Company	GHD Air Stripper (72,000 GPD)	Hydrocarbons
2018	Nunavut (Canada)	Iron Ore Mine	Groundwater Treatment System (43,200 GPD)	Mine Maintenance Wastewater
2018	New Mexico (USA)	Oil & Gas Refinery	Soil Vapor Extraction System (600ACFM @ 20inHg)	Petroleum Spill
2018	Ontario (Canada)	Commercial Development	Soil Vapor Extraction/ Air Sparge System	Contaminated Groundwater
2017	New Mexico (USA)	Chemical Distribution	Modular Groundwater Treatment System (126,000 GPD)	1,4-Dioxane
2017	New Mexico (USA)	Chemical Distribution	Modular Groundwater Treatment System (126,000 GPD)	1,4-Dioxane
2017	Utah (USA)	Gas Station	Soil Vapor Extraction System & Oxidizer	Hydrocarbons
2017	Ontario (Canada)	Rail Construction Site	Modular Groundwater Treatment System (432,000 GPD)	Contaminated Groundwater
2017	Indiana (USA)	Dry Cleaning Site	Soil Vapor Extraction System (720 acfm @ 22inHg)	Contaminated Groundwater



From Source to Solution – Choose Newterra

Your trusted partner for comprehensive environmental solutions

With technology brands whose histories expand back for more than 150 years, Newterra has steadily grown from its roots to become a global solutions provider in water and wastewater treatment. Our journey is a testament to our deep understanding of the multifaceted challenges across various markets and applications.

Our “One Newterra” ethos a commitment to providing a comprehensive array of technical solutions, ensuring we address the full spectrum of our clients’ needs. This dedication extends beyond technology, as we nurture enduring partnerships with our clients, standing by them throughout every phase of their challenges. At the heart of Newterra is our unwavering commitment to sustainability.

Our people, our technologies and our practices contribute meaningfully to a sustainable and brighter future.



Newterra Corporation, Inc. | +1 800.420.4056 | [newterra.com](https://www.newterra.com)

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