GRAFTA
Nanotech Inc.

INNOVATIVE WATER REMEDIATION TECHNOLOGY

Private and Confidential
Q3 2025

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CORPORATE OVERVIEW

Grafta Nanotech Inc. (“Grafta”) has developed a highly scalable process for producing synthetic graphene (GRAFTA™) targeting the $250 billion global water remediation market[1]

The exceptional absorption capabilities of GRAFTA™ allows the company to offer a product that can remove heavy metals, dissolved minerals, hydrocarbons and oils, industrial contaminants and harmful chemicals from industrial wastewater

Proven, patented, low-cost, turn-key solution that targets remediation in industrial, mining, in situ and other environmental contaminated waters

GRAFTA™ is produced at the 2.5 tonne/day commercial Calgary facility (scaleable to 8T/day) and has undergone significant process testing and design to ensure production can be scaled to an industrial level to support future sales growth

As demand for GRAFTA™ continues to accelerate, Grafta will invest in the expansion of production capacity to support the emerging scale of supply required to support customer needs

1) Source: Statista.com

INVESTMENT HIGHLIGHTS

- Unique patented products utilizing Graphene for the treatment of industrial and mining waste waters
- Third party certified lab tests have been performed proving that Grafta's products successfully remove a high ratio of targeted contaminants from client water samples
- Large and growing addressable market: USD $42.7 billion TAM / 5.18% CAGR
- Grafta 1.0 has proved to have significantly superior performance in removing contaminants vs. traditional methods while requiring less capital equipment and footprint on treatment sites
- Cost effective on a per volume basis relative to competing incumbent methods
- First mover advantage with no competitors offering absorbent graphene products for the treatment of water
- Commercially available today, with an owned and operated 50 tonne/month production facility + supported in both sales and technical deployments by a group of established industry partners

Grafta's graphene-based products are proven to be best-in-class and commercially available

EXPERIENCED MANAGEMENT TEAM

Mark Bentsen,
Chief Executive Officer

- 30 years of experience building successful energy service firms in both Public & Private corporate space
- Former President & CEO at Cathedral Energy Services
- Established track record of scaling businesses and delivering significant shareholder returns

Doug Keast CPA CA
Chief Financial Officer

- Over 30 years of experience working as a financial executive in various sectors including energy, technology, manufacturing, renewable energy, and private equity
- CFO/COO of both public and private entities
- Previously served as a director on multiple private high growth entities
- Multiple exits through M&A and public market

Dr. Edwin Safari, PhD, P.Eng,
Chief Scientific Officer

- Inventor of the GRAFTA™ material
- Technical visionary with decades of research & development experience
- Instrumental in refining GRAFTA™ to be a market ready product
- Significant academic affiliations with multiple universities

Brian Fleury,
VP *Sales & Business Development*

- Seasoned business development executive with extensive network within industries targeted by Grafta
- Decades of technology application development experience with a significant focus on the mining industry

WASTE WATER – AN INCREASING GLOBAL ISSUE

Clean Water: An Industrial Challenge

- Water is vital to life and industry
- Mining and industrial processes are significant contaminators of clean water supplies with a range of contaminants including:

Mercury	***Selenium***	***Hydrocarbons***
Arsenic	***Copper***	***PCB's***
Cadmium	***Aluminum***	***Solvents***

- These contaminants impact in two major areas of concern:
  - Legacy issues from previous operations impacting groundwater supplies
  - Waters used in operating processes that have an increasing cost of remediation and disposal

A Nanotechnology Solution

- GRAFTA™ is a patented, engineered graphene nanotechnology that passively removes many of the most difficult to remove industrial contaminants that existing solutions struggle to remove

MARKET OPPORTUNITIES

In Situ Risk Management

GRAFTA™ has applications for:

- Mitigating legacy risk through permeable reactive barriers that protect ground water quality
- Removing contaminants such as heavy metals, hydrocarbons and other industrial contaminants.

Industrial Wastewater Remediation

GRAFTA™ industrial applications are:

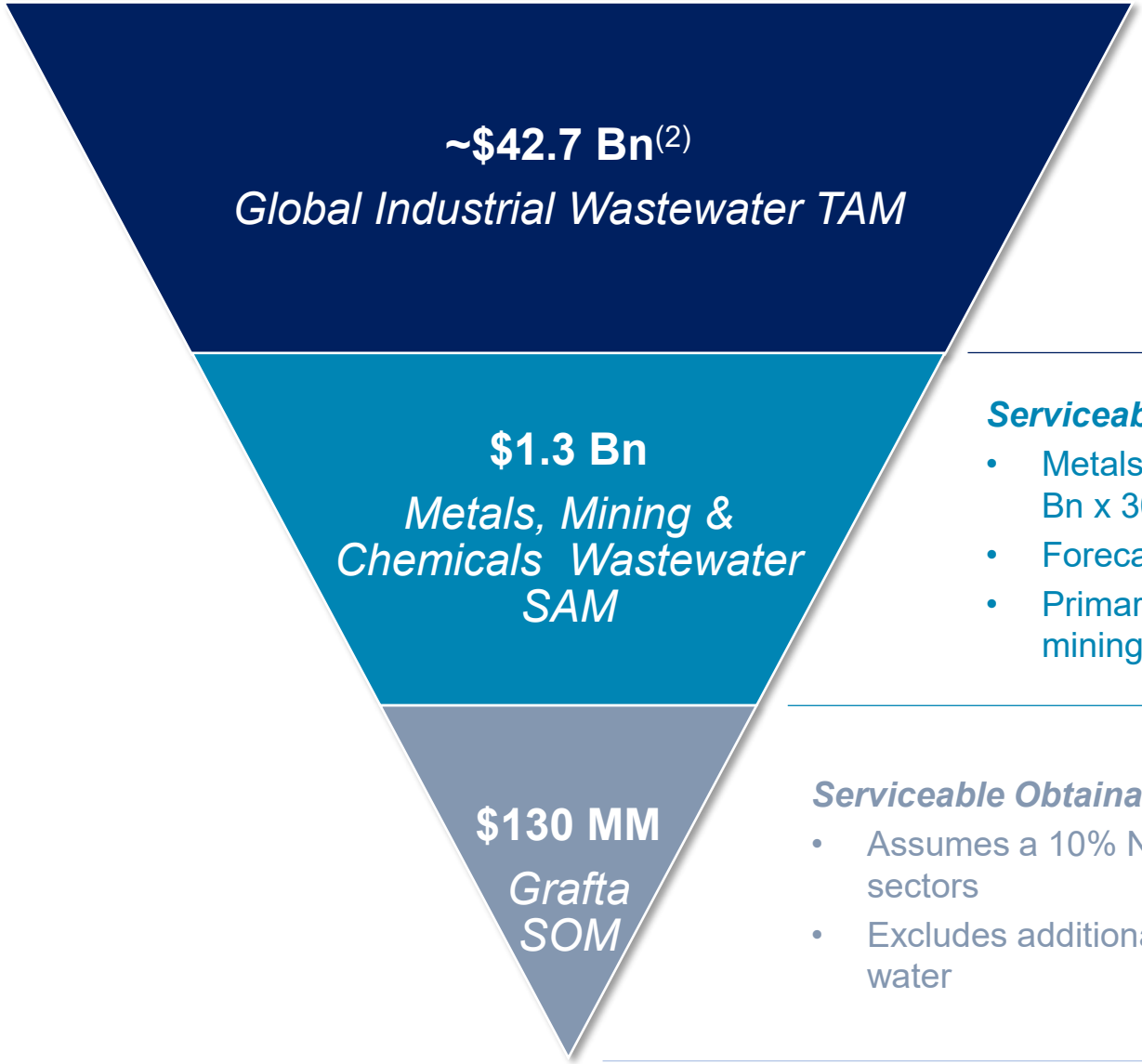
- Targeted on removing pollutants and toxins from industrial process water
- Facilitating extensive reuse and recycle of water back into industrial processes.
- Cost reduction for water management and remediation

Mining Wastewater Remediation

GRAFTA™ mine applications:

- Remove heavy metals, dissolved minerals and pollutants in-line for discharge quality end of cycle water
- GRAFTA™ 2.0 has been engineered to target selenium, nitrogen, zinc, copper and arsenic which are significant mining contaminants

Large and Growing Market for Wastewater Treatment(1)



- Includes wastewater from industrial, municipal and agricultural uses
- Split into three distinct categories by volume
  - Less than 1 MGD / 1 to 10 MGD / 10 – 100 MGD
- Forecast CAGR of 5.18% from 2023 to 2032, with quickest growth in 1 to 10 MGD sub-sector
- Primary growth drivers include increased regulation, industrialization and freshwater scarcity

Serviceable Addressable Market (SAM)

- Metals & Mining SAM ($8.0 Bn) + Chemical / Metal Finishing ($9.0 Bn) = $17.0 Bn x 30% technology adoption rate x 25% geographic location = $1.3 Bn
- Forecast CAGR of 10.3% from 2023 to 2032
- Primary growth drivers include introduction of strict heavy metal regulations in mining, risk of acid mine drainage events from growing tailings volumes

Serviceable Obtainable Market (SOM)

- Assumes a 10% North American market share within the Metals, Mining and Chemicals sectors
- Excludes additional applications in energy production, municipal water treatment and in-situ water

(1) All values in USD in 2024
(2) Source: Market Research Future (Link)

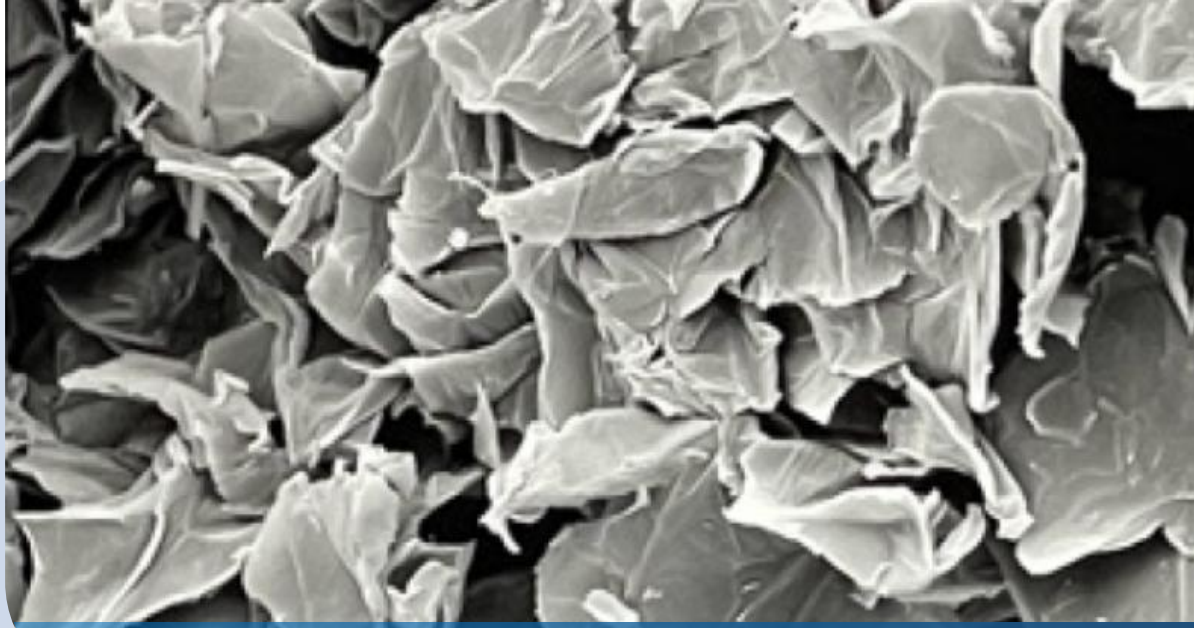
THE TECHNOLOGY

Advanced Water Remediation Technology

- GRAFTA™ is a patented, synthetic graphene and graphene oxide nanotechnology
- Results indicate GRAFTA™ continues to adsorb the contaminants of concern after over 7,500 pore volumes equating to several months of longevity, significantly longer than any competing technology
- Producing GRAFTA™ products at Calgary plant since April 2023 and has developed and refined the industrial processes and produced over 60 tonnes of finished product

Adsorption Capacity

- GRAFTA™ at its nano scale has a massive theoretical specific surface area of approximately 2600 m^2/gram, ~ 4.3x larger than existing product (activated carbon)
- This incredible surface area provides an exceptional platform for adsorption of contaminant molecules such as metals, hydrocarbons, dissolved minerals and other harmful chemicals with near zero leaching



Microscopic image of Grafta's material showing the graphene layers

The Power of Graphene

- Graphene is a super element traditionally developed from mined graphite
- Graphene is the strongest material ever measured (100-300x stronger than steel), the best conductor of electricity and heat, and has exceptional adsorption capabilities

MANUFACTURING PROCESS – COMMERCIAL FACILITY

The patented production process of GRAFTA™ is a chemical process based around readily available source materials in a repeatable and scalable production process that supports growth and deployment directly for key markets

Raw Materials

Carbon Source

Recycled Glass

Silica

Mixing

Raw materials are combined and heated to prepare the base mixture

Baking

The base mixture of GRAFTA™ is baked to achieve carbonization

Grading

The finished GRAFTA™ is graded for applications

Distribution

Logistics are in place for distribution across North America

PRODUCT APPLICATION

Passive Contaminant Removal

- GRAFTA™ is a passive graphene nanotechnology with a massive specific surface area that adsorbs multiple contaminants simultaneously
- GRAFTA™ is a non-leaching technology that once used and filled with contaminated materials may be disposed in most circumstances in standard landfill

Easily Integrates Into Existing Systems

- GRAFTA™ is highly versatile and can be implemented in a wide range of systems including standard pump and treat type systems as shown
- GRAFTA™ has been shown to remove a wider range of contaminants with a higher level of effectiveness and a longer operating lifetime than existing remediation technologies

A standard industrial Grafta system and GRAFTA™ particles (inset) comprising the contents

PRODUCT COMPARISON

	GRAFTA™ Graphene	Activated Carbon	Reverse Osmosis /Membranes	Zeolites
Primary Mechanism	Carbonized mixture including carbon source, silica, and glass to form absorbent pellets	Carbonized and activated mixture of natural elements (wood, coconut husks)	Thin-film, semi-permeable, polymer membranes	3D crystalline aluminosilicate framework
Application	• Heavy Metals • Metals & Metalloids • Inorganics • Hydrocarbons/Organics	• Heavy metals (some) • Precious Metals • Oils • Dissolved Solids • De-Chlorination	• Heavy Metals • Large Organic Molecules • Inorganic Salts • Micro-Organisms	• Heavy Metals • Ammonium • Radioactive Isotopes
Product Maturity	Emerging	Mature	Mature	Mature
Manufacturing Complexity	Low	Moderate	High	Moderate
End User CAPEX Intensity	Low	Mid	High	Mid
End User Pricing	Low	Mid	Mid	Low
Relative Performance	• Highly cost effective on a per volume basis while being an ideal solution for complex treatments	• Not suitable for high-performance and / or complicated applications • Go to solution for general purpose treatment	• Highly susceptible to clogging, results in reduced efficiency and high toxicity brine • Requires very high pressures, energy intensive	• Limited ability to capture large molecules as they are too large to enter pores • Primarily excel at low complexity removal of specific Cations

GRAFTA is a passive solution that does not require extensive CAPEX

CASE STUDY: Petroleum Hydrocarbons

Performance at a Glance

- GRAFTA™ delivers **rapid, effective removal** of PHCs, BTEX, VOCs and PAHs.
- Achieves **non-detectable or below-regulatory limits** in treated effluent.
- **>99% removal efficiency** with **<10 minutes contact time.**

Cooling Tower Test Results

- Bench-scale tests on hydrocarbon-contaminated cooling tower water:
  - PAHs and PHCs reduced to **non-detectable levels**.
  - Performance **exceeded Canadian regulatory limits** for safe discharge.

Fig 1. untreated waters flowing into the processing facility

Fig 2. sample of treated water post Grafta processing

INDUSTRY PARTNERS

Qualified Distribution and Solution Partners

Grafta has developed a number of significant partnerships with engineering and solution provider firms that significantly complement the growth strategy.

- Partner firms have extensive client relationships and numerous projects that GRAFTA can plug into and provide a unique solution for historically hard to remove contaminants
- Grafta provides marketing and sales support that allows these partner firms to provide enhanced solutions to their clients and uniquely position to acquire new clients
- Grafta's reach into markets is increased and accelerates product sales into existing projects, creating new opportunities for problems that were not previously solvable.

Point of Use Resources LLC

- Engineering, environmental and remediation solutions primarily targeting Texas and Louisiana

Milestone Environmental Contracting Inc

- A leading provider of environmental contracting services, water treatment and project management solutions across Canada

Pinchin Ltd.

- One of North America's premier environmental, engineering, building science, and health & safety consulting firms

United Rentals

- North America’s premier and largest rental company with a significant water treatment division

DEVELOPMENT TIMELINE

Q3 2022

$2.0mm private placement to acquire technology and construct Calgary commercial facility

Q2 2023

Calgary facility with 2.5T per day capacity commissioned with first production of GRAFTA™

Q3 2023 – Q2 2024

Manufacturing process testing, refinement and development of GRAFTA™ to support industrial scale production

Q3 2024

Commenced signing partnership agreements with solution providers

Q4 2024

Distribution and solution partnerships established with leading firms, such as Point of Use Resources, Milestone and Pinchin that will utilize GRAFTA™ in client solutions

Q1 2025

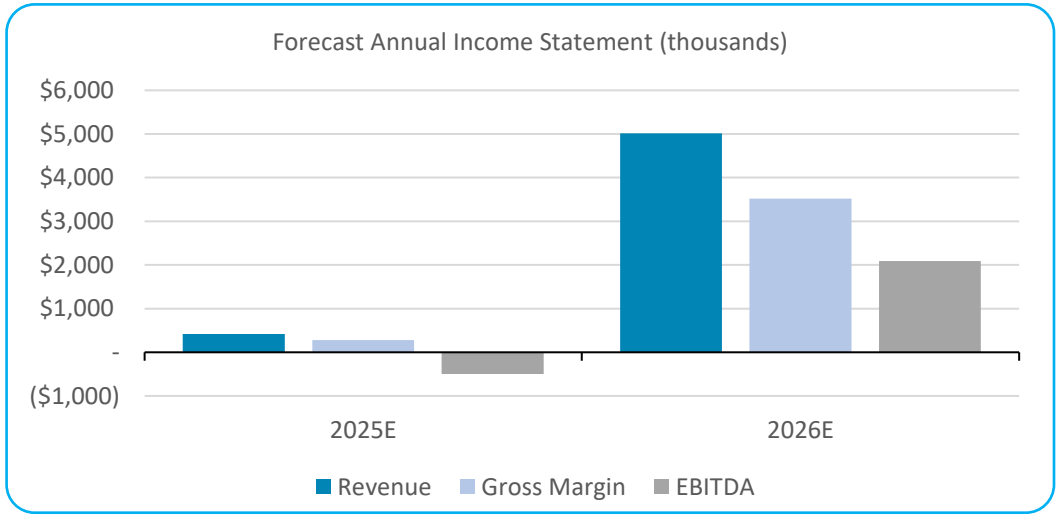
Finalized commercial sales and extensive pipeline development supporting growth for 2025 and beyond

2025 - 2026

Expand marketing and sales team for execution to grow partnerships and penetration into the North American market

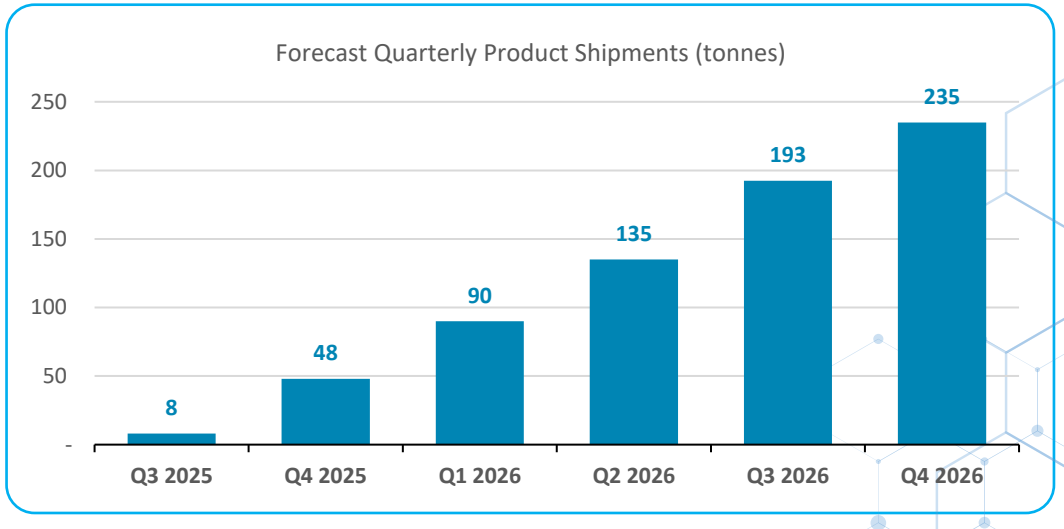
FINANCIAL OVERVIEW

Projections		
($ thousands)	2025	2026
Total Revenue	$420	$5,014
Gross Margin	$280	$3,520
Gross Margin (%)	66.6%	70.2%
EBITDA	($494)	$2,090



Financial Drivers

- Commercial sales of GRAFTA™ started in Q1 2025
- MSRP of GRAFTA™ (per tonne) is C$7,200
- Initial COGS of ~34% for bulk sales with cost synergies being realized throughout 2025
- Targeted positive EBITDA by Q1 2026
- Production capacity can increase to 100T per month with additional ovens and finishing equipment. Planned for Q1/2026 to support demand



CAPITALIZATION

Current Cap Table

	(mm)
Basic Share Outstanding (mm)	58.1
Warrants (mm)[1]	11.4
Fully Diluted Shares (mm)[1]	**69.5**
Debt	$0.0

[1] Warrants have a strike price of $0.25 per share (expire June 2026)

Major Shareholders

	Shares (mm)	%
Mark Bentsen (CEO)[1]	13.3	23.0%
PillarFour Capital	10.2	17.5%
Comnipex (CSO)	8.0	13.8%
Brian Fleury (VP Sales)[1]	5.5	9.5%
Doug Keast (CFO)[1]	3.6	6.2%
Others	17.5	30.1%
Total	**58.1**	**100%**

Invested Management Team

[1] Management Team has purchased common stock in each capital round

USE OF PROCEEDS – EQUITY RAISE

	CAD
Capital	
Ventilation	$150,000
Racks	$30,000
Automation	$120,000
	$300,000
Working Capital	
Testing	$50,000
Inventory	$100,000
Marketing	$150,000
Sales Team	$200,000
General Working Capital	$200,000
	$700,000
Total	**$1,000,000**

- Covers cost of principal sales leaders in Alberta, British Columbia, Quebec and Ontario;
- Attending tradeshows/conferences and increased marketing in Canada;
- Production equipment enhancements
- Require a further 85 tonnes of product to meet demand;
- Working capital requirements for general operations.

Proposed equity raise will be the last equity required to reach sustainable free cash flow

INVESTMENT HIGHLIGHTS

Unique Patented Product

- GRAFTA™ is a patented, synthetic graphene product in an industry experiencing rapid growth
- Sustainable and scalable production method
- **Provides significant cost savings compared to existing solutions**

Low Capital-Intensive Business with Attractive ROIC

- Grafta has a low capital / high margin business with the ability to generate substantial free cashflow
- Potential to create liquidity for shareholders through dividends or an IPO

Highly Targeted Market Solutions

- Grafta provides a solution that outperforms current market options in at least three industrial sectors:
  - Industrial wastewater remediation
  - Mine tailings and wastewater remediation
  - In-situ and environmental water remediation

Scalable Competitive Advantage

- Nanoscale formulation provides exceptional absorption and retainment - 2.6 km^2 of surface area per Kg of product
- Contaminant retention ensure that the end product is easy and safe for disposal vs. competitors concentrated brine waste

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