



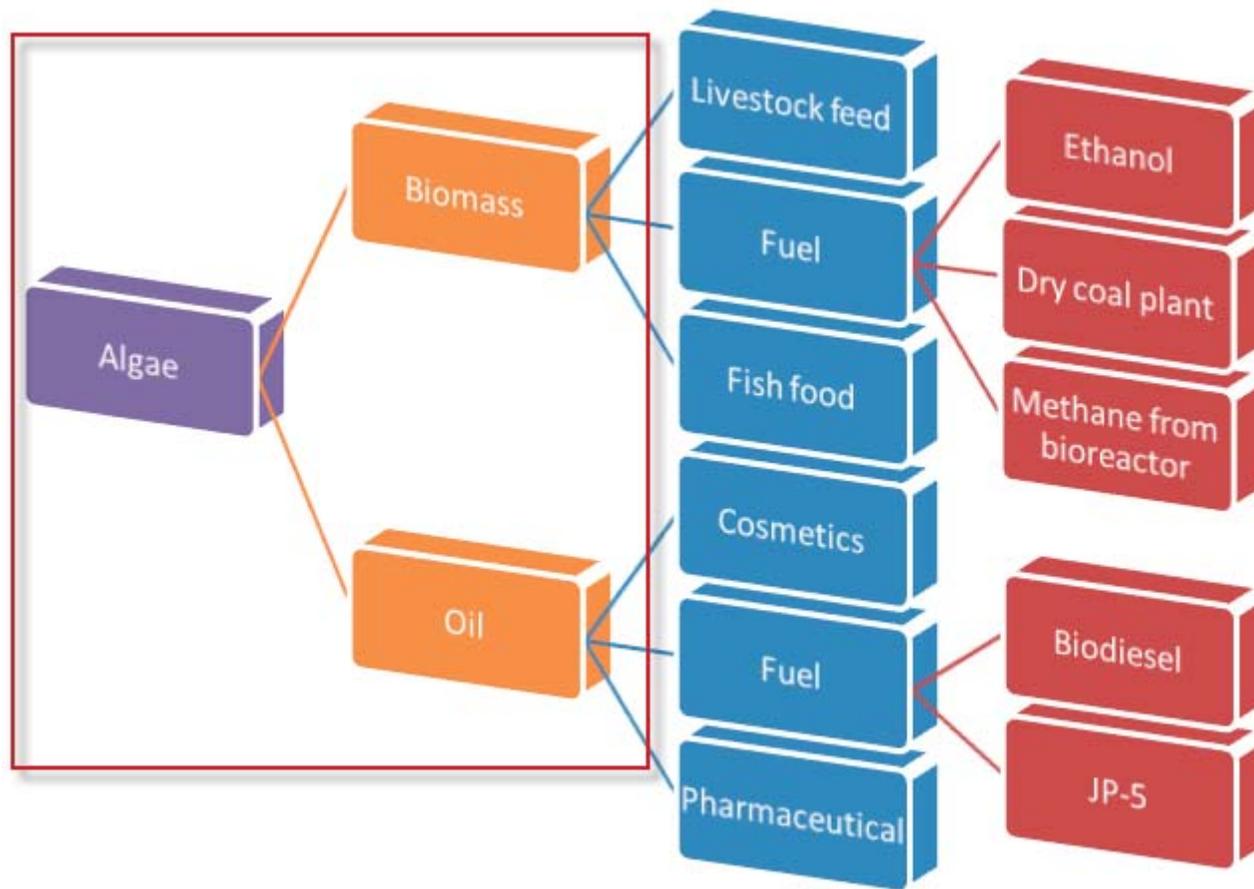
paul@eldoradobiofuels.com
(505) 670-8490
www.eldoradobiofuels.com

Growing Algae in Treated Produced Water

Eldorado Biofuels Overview & Strategy

- **Algae production company located in Santa Fe, NM**
- **Dynamic capability: treat produced water to cultivate, harvest and extract oil from algae biomass**
- **Products:**
 - **Algae biomass**
 - **Feedstock oil (lipids) for processing into biodiesel**
 - **Lipid Extracted Algae (LEA)**
- **Sales to energy producers; distributors (not end users)**
- **Vision: Be the first algal biofuels company with a profitable, 1000 acre, commercial scale facility**
- **Service provider to design, develop and operate similar facilities at produced water injection wells.**

Products from Algae



Eldorado Biofuels' Current Products



Jalgae™ Oil



Lipid Extracted Algae
Carbohydrate, Protein and
Omega-3 fatty acids

Eldorado Biofuels Jal Facility



Joyner #1 Oil and Gas Well

Bobcat produced water disposal

Our Unique Niche – Using Produced Water to Cultivate Jalgae™



Fulfer Oil & Cattle Ranch Well

18 billion barrels of
produced water
generated onshore
USA annually

Divert, rather than inject, treated produced water into open ponds

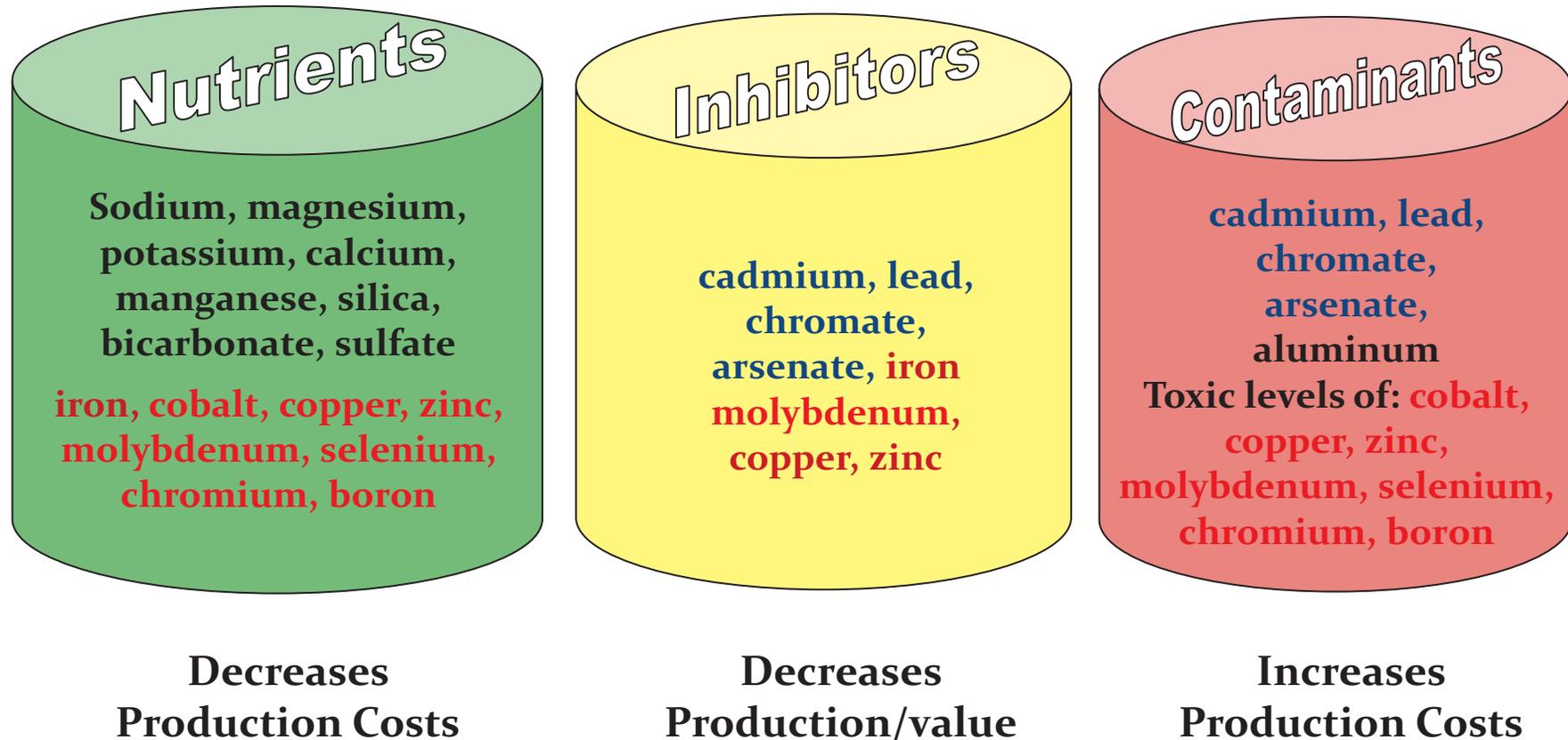


VM Technology's water treatment system removes toxins



VM TECHNOLOGY, INC.

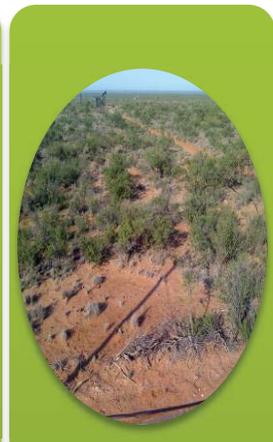
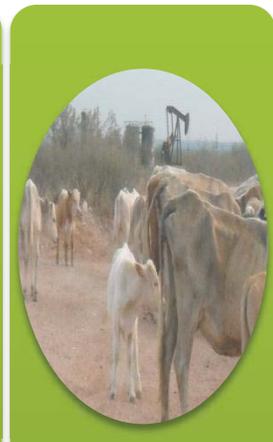
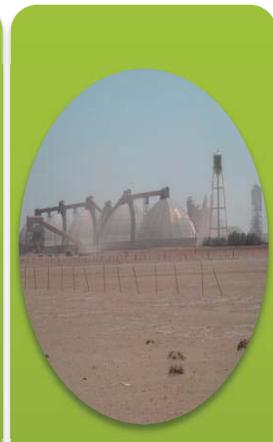
Eldorado Biofuels and NAABB partner Los Alamos National Laboratory are evaluating produced water constituents*



Depending on **concentration** and **speciation**, some metals can be a nutrient, algal growth inhibitor, or an environmental contaminant. **Concentration ratios** of metals can also be important.

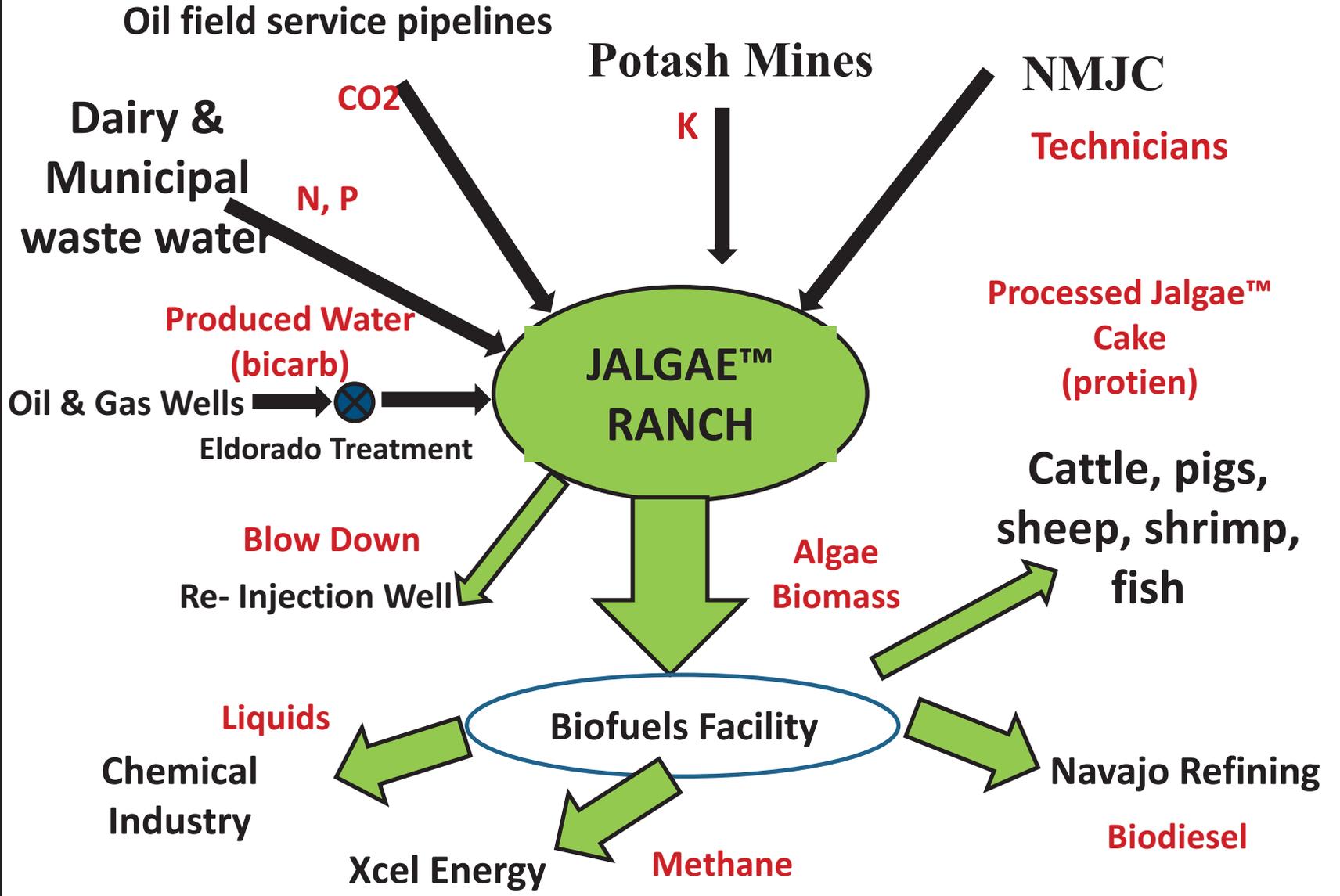
* Slide Courtesy of Cynthia Dean, LANL

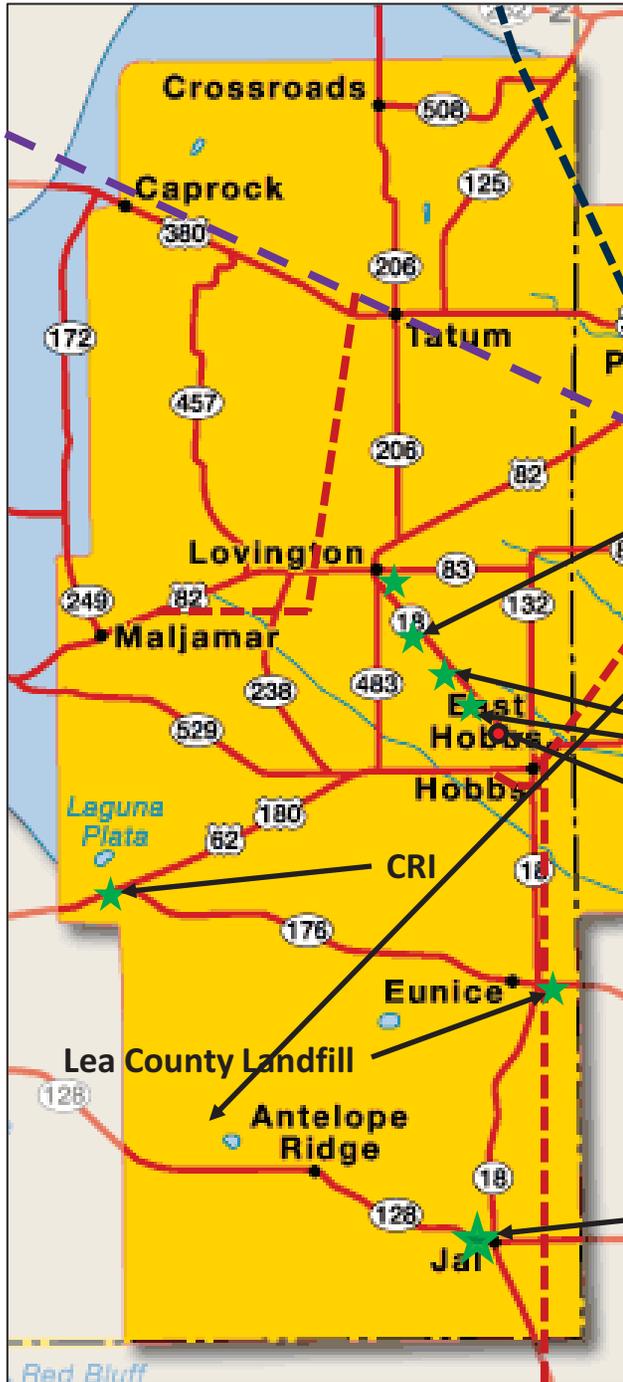
Permian Basins Resources Make it an Attractive Place to Grow Jalgae™

						
Sunshine	Water	Surface Area	Nitrogen	Phosphorus	Carbon	Lack of Predators

Resources for Cultivating Jalgae™

ELDORADO BIOFUELS OPERATION





CO₂ Pipelines



Potash Mines



Navajo Refining Lea Refinery



Goff & Ruch Dairies



NMJC



Eldorado Biofuels

Strategic Partners:

National Alliance for Advanced Biofuels & Bioproducts Consortium (NAABB)

The Donald Danforth Plant Center*†

* NAABB Team Management

† NAABB Board of Directors

National Laboratories

- Los Alamos National Laboratory*†
- Pacific Northwest National Laboratory*†
- USDA - ARS

Universities

- Brooklyn College
- Clarkson University
- Colorado State University*†
- Iowa State University
- Michigan State University†
- New Mexico State University*†
- North Carolina State University
- Texas AgriLife Research / Texas A&M University System*†
- University of Arizona*†
- University of California Los Angeles
- University of Pennsylvania
- University of Texas (sub)
- University of Washington
- Washington University St. Louis

Industry

- Albermarle Catilint†
- Diversified Energy
- **ELDORADO BIOFUELS**
- Genifuel
- HR Biopetroleum / Cellana†
- Inventure
- Kai BioEnergy
- Palmer Labs
- Phycal
- Reliance Industries Limited
- SRS Energy
- Solix Biofuels*†
- Targeted Growth†
- Terrabon
- UOP a Honeywell Company†

Eldorado and NAABB partner, Catilin*, collaborated on ASTM grade Biodiesel



*Photo courtesy of Ablemarle-Catilin

ELDORADO BIOFUELS

2010 NM Small Business Innovation Award



Paul Laur, CEO/President
(505) 670-8490

paul@eldoradobiofuels.com

www.eldoradobiofuels.com

