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STATE OF NEW MEXICO
BEFORE THE WATER QUALITY CONTROL COMMISSION

IN THE MATTER OF PROPOSED NEW
RULE 20.6.8 NMAC – *Ground and Surface
Water Protection - Supplemental Requirements
For Water Reuse*

No. WQCC 23 - 84 (R)

NEW MEXICO ENVIRONMENT DEPARTMENT,
WATER PROTECTION DIVISION,

Petitioner.

FIRST AMENDED PETITION AND STATEMENT OF REASONS

The Water Protection Division of the New Mexico Environment Department (“Department”) files this First Amended Petition with the Water Quality Control Commission (“Commission”) to adopt a new part (“Part 8”) to Title 20, Chapter 6 of the New Mexico Administrative Code (“NMAC”). The proposed Part 8 is entitled “Ground and Surface Water Protection – Supplemental Requirements for Water Reuse” and will supplement the existing Ground and Surface Water Protection Regulations found at 20.6.2 NMAC. Proposed Part 8 is intended to regulate emerging methods of water reuse that are under the jurisdiction of the Commission, including the reuse of produced water pursuant to the Produced Water Act, NMSA 1978, Section 70-13-3(B) and the 2019 amendments to the Water Quality Act found at NMSA 1978, Section 74-6-4(P). A revised statement of reasons is included below, and the revised text of proposed Part 8 is included as Attachment 1 to this First Amended Petition. A redline showing the changes from the original petition version is included as Attachment 2.

The Department has elected to revise the proposed Part 8 after internal review and in response to comments received from a variety of stakeholders since the filing of the original Petition. The revisions include the addition of a definition for “Industrial Project” and clarification

that the Department shall deny certification of any federal permit proposing the discharge of treated or untreated produced water to a surface water. Section 400 contains revisions to clarify that the Department shall not issue a groundwater permit for the discharge of treated produced water without development and adoption by the WQCC of standards specific to treated produced water. The revised proposal also includes several wording changes and typographical corrections.

A hearing is currently scheduled for this Petition beginning on May 13, 2024.

Respectfully submitted,

NEW MEXICO ENVIRONMENT DEPARTMENT

/s/ Andrew P. Knight

Andrew P. Knight

Assistant General Counsel

121 Tijeras Ave NE, Suite 1000

Albuquerque, New Mexico 87102

(505) 470-8215

Andrew.knight@env.nm.gov

STATEMENT OF REASONS

BACKGROUND

1. The Commission is authorized by the Water Quality Act, NMSA 1978, Section 74-6-4 (hereinafter, "WQA") to "...adopt, promulgate and publish regulations to prevent or abate water pollution in the state or in any specific geographic area, aquifer or watershed of the state or in any part thereof, or for any class of waters...." See Section 74-6-4(E) NMSA 1978.

2. The Commission's mandate to prevent or abate water pollution was actualized in 1977 when the Commission adopted the Ground and Surface Water Protection Regulations found in 20.6.2 NMAC.

3. Since that time, the Commission has occasionally adopted supplemental regulations to 20.6.2 NMAC, including changes intended to conform to amendments in the WQA.

PROVISIONS OF PART 8

4. The purpose of Part 8 is to regulate the reuse of water to prevent the movement of contaminants into groundwater or surface waters of the state.

5. Part 8 applies to all persons subject to the WQA, NMSA 1978 Sections 74-6-1 through 74-6-17, and specifically to persons intending to reuse wastewater and their operations. See proposed 20.6.8.2.

6. The Commission's adoption of Part 8 is authorized by the WQA and the Produced Water Act, NMSA 1978, Subsection B of Section 70-13-3 and Subsection D of Section 70-13-4. See proposed 20.6.8.3.

7. The objective of Part 8 is to supplement the general requirements of 20.6.2.1200 through 20.6.2.2201 NMAC and the general permitting requirements of 20.6.2.3000 through

20.6.2.3114 NMAC to control the discharges of water contaminants specific to water reuse. See proposed 20.6.8.6.

8. Part 8 defines reuse water as “a treated wastewater originating from domestic, industrial, or produced water sources, that has undergone a level of treatment appropriate for an application such as agriculture, irrigation, potable water supplies, aquifer recharge, industrial processes, or environmental restoration.” See proposed 20.6.8.7(R)(4).

9. Part 8 allows the Department to authorize water reuse feasibility studies for direct or indirect potable applications, provided that there is no connection between a potable water system and the water being studied and no cross connections exist between feasibility study-water and a community’s potable water supply. See proposed 20.6.8.201.

10. Part 8 regulates the reuse of treated or untreated produced water that is unrelated to the production of oil or gas. See proposed 20.6.8.400.

11. Part 8 provides that any discharge of untreated produced water to groundwater or surface waters of the state is prohibited. See proposed 20.6.8.400(A)(1) and (A)(3) and (D).

12. Part 8 provides that any discharge of treated produced water a surface water is prohibited. See proposed 20.6.8.400(A)(2).

13. Part 8 provides that any discharge of treated produced water directly or indirectly into groundwater is prohibited and that the department shall not approve a discharge permit plan or a discharge permit plan modification that includes the discharge of treated produced water without development and adoption of standards specific to treated produced water. See proposed 20.6.8.400(A)(4).

14. Part 8 authorizes the Department to approve bench-scale or pilot projects involving produced water provided that the Department determines that there will be no discharge to groundwater or a surface water of the state. See proposed 20.6.8.400(B).

15. Part 8 provides that any release of untreated or treated produced water is subject to the notifications and corrective actions in 20.6.2.1203 NMAC except releases under the authority of the oil conservation commission pursuant to the provisions of the Oil and Gas Act, NMSA 1978, Section 70-2-12 and other laws conferring power on the oil conservation commission and the oil conservation division of the energy, minerals, and natural resources department to prevent or abate water pollution. See proposed 20.6.8.400(B)(1)(g).

16. Part 8 requires that any person intending to conduct a demonstration project or industrial project involving treated produced water must first submit a notice of intent to the Department and specifies the information that must be provided in such a notice of intent. See proposed 20.6.8.400(C).

17. Part 8 prohibits any person from conducting a demonstration project or industrial project involving treated produced water unless and until the Department has received a notice of intent and made a determination that no permit is required because there will be no discharges that can move directly or indirectly into groundwater or a surface water of the state. See proposed 20.6.8.400(A) and (B).

18. Part 8 contains a subsection that is reserved for future water quality standards for treated produced water. See proposed 20.6.8.400(D).

STATUTORY CRITERIA FOR ADOPTION

18. Amendments to the WQA adopted in 2019 specify that the Commission must require a permit for the use of produced water and required the Commission to adopt regulations

to be administered by the department of environment for the discharge, handling, transport, storage, recycling, or treatment for the disposition of treated produced water. See NMSA 1978, 74-6-4(P).

19. The WQA states that regulations adopted by the Commission may specify a standard of performance for new sources that reflects the greatest reduction in the concentration of water contaminants that the Commission determines to be achievable through the application of the best available demonstrated control technology, processes, operating methods, or other alternatives, including, where practicable, a standard permitting no discharge of pollutants. See NMSA 1978, 74-6-4(E).

20. In making regulations, the WQA specifies that the Commission shall give the weight it deems appropriate to all relevant facts and circumstances, including:

- a) the character and degree of injury to or interference with health, welfare, environment, and property;
- b) the public interest, including the social and economic value of the sources of water contaminants;
- c) the technical practicability and economic reasonableness of reducing or eliminating water contaminants from the sources involved and previous experience with equipment and methods available to control the water contaminants involved;
- d) the successive uses, including domestic, commercial, industrial, pastoral, agricultural, wildlife, and recreational uses;
- e) feasibility of a user or a subsequent user treating the water before a subsequent use;

- f) property rights and accustomed uses; and
- g) federal water quality requirements.

See NMSA 1978, 74-6-4(E).

21. The proposed Part 8 fulfills the mandate of the 2019 amendments and is in compliance with the other requirements of the WQA.

CERTIFICATE OF SERVICE

I certify that a copy of the foregoing First Amended Petition was served electronically on the following this 20th day of March 2024.

Nicholas R. Maxwell
inspector@sunshineaudit.com

Tannis Fox
Western Environmental Law
fox@westernlaw.org
Counsel for Amigos Bravos and Sierra Club

Jeffrey Wechsler
Montgomery and Andrews
jwechsler@montand.com
Counsel for New Mexico Oil and Gas Association

Jolene L. McCaleb
Elizabeth Newlin Taylor
Taylor & McCaleb, P.A.
jmccaleb@taylormccaleb.com
etaylor@taylormccaleb.com
Counsel for Select Water Solutions, Inc.

Emily Bowen
New Mexico Department of Justice
ebowen@nmag.gov
Counsel for the Water Quality Control Commission

Felicia Orth
Hearing Officer
Felicia.l.orth@gmail.com

/s/ Andrew P. Knight
Andrew P. Knight

TITLE 20 ENVIRONMENTAL PROTECTION
CHAPTER 6 WATER QUALITY
PART 8 GROUND AND SURFACE WATER PROTECTION –
SUPPLEMENTAL REQUIREMENTS FOR WATER REUSE

20.6.8.1 ISSUING AGENCY: Water Quality Control Commission.
[20.6.8.1 NMAC - N, mm-dd-yy]

20.6.8.2 SCOPE: All persons subject to the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17 and specifically to persons intending to reuse wastewater and their operations.
[20.6.7.2 NMAC - N, mm-dd-yy]

20.6.8.3 STATUTORY AUTHORITY: Standards and regulations are adopted by the commission under the authority of the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17 and the Produced Water Act, NMSA 1978, Subsection B of Section 70-13-3 and Subsection D of Section 70-13-4.
[20.6.8.3 NMAC - N, mm/dd/yy]

20.6.8.4 DURATION: Permanent.
[20.6.8.4 NMAC - N, mm-dd-yy]

20.6.8.5 EFFECTIVE DATE: Month Day, Year, unless a later date is cited at the end of a section.
[20.6.8.5 NMAC - N, mm-dd-yy]

20.6.8.6 OBJECTIVE: The objective of 20.6.8 NMAC is to supplement the general requirements of 20.6.2.1200 through 20.6.2.2201 NMAC and 20.6.4.8 through 20.6.4.900 NMAC, and the general groundwater permitting requirements of 20.6.2.3000 through 20.6.2.3114 NMAC to control the discharges of water contaminants specific to water reuse.
[20.6.8.6 NMAC - N, mm-dd-yy]

20.6.8.7 DEFINITIONS: The following terms as used in this part shall have the following meanings: terms defined in the Water Quality Act, but not defined in this part, will have the meaning given in the act.

A. Terms beginning with numerals or the letter “A,” and abbreviations for units.

(1) **“Agricultural application”** means the application of reuse water for cultivating the soil and growing crops or irrigating pasture for livestock grazing. Agricultural application includes the use of water in connection with the operation or maintenance of feedlots or animal feeding operations (“AFOs”), but not those activities defined as livestock application.

(2) **“Application”** means a final disposition of a treated wastewater for reuse. Applications include, but are not limited to industrial, agricultural, direct potable, indirect potable, recreational turf, rangeland, or ecological restoration water reuse. Applications may have effluent criteria to protect ground water, surface water, and aquatic health.

B. Terms beginning with the letter “B”.

(1) **“Bench-scale project”** means a project or study conducted in a laboratory.

C. Terms beginning with the letter “C”.

(1) **“Commercial application”** means the application of reuse water in connection with any activity that provides, or offers to provide, goods or services for incidental use, such as but not limited to car washes, laundry facilities, window washing, chemical mixing, where public access is not restricted or limited.

D. Terms beginning with the letter “D”.

(1) **“Demonstration project”** means a bench-scale or pilot project, as defined in this Part.

(2) **“Department”** means the New Mexico environment department.

(3) **“Direct potable application”** means the delivery of purified water to a drinking water plant or a drinking water distribution system without an environmental buffer. Additional treatment, monitoring, or an engineered buffer would be used in place of an environmental buffer to provide equivalent protection of public health and response time if the purified water does not meet specifications.

(4) **“Discharge permit”** as defined in 20.6.2 NMAC.

(5) **“Discharge plan”** as defined in 20.6.2 NMAC.

- (6) **“Discharge site”** as defined in 20.6.2 NMAC.
- (7) **“Disposal”** as defined in 20.6.2 NMAC.
- (8) **“Domestic wastewater”** means untreated wastewater containing human excreta and water-carried waste from typical residential plumbing fixtures and activities, including but not limited to, wastes from toilets, sinks, bath fixtures, clothes or dishwashing machines and floor drains.
- E. Terms beginning with the letter “E”.**
 - (1) **“Environmental buffer”** means any ground water, streams, lakes, or impoundments used for reuse water storage or conveyance purposes related to an indirect potable application.
- F. Terms beginning with the letter “F”.**
 - (1) **“Feasibility study”** means a study conducted by a person to determine if a new or modified domestic wastewater treatment technology will be technically, economically, or financially viable for use in a direct or indirect potable application.
 - (2) **“Flood irrigation application”** means land application of reuse water by ditches, furrows, pipelines, low flow emitters, and other non-sprinkler methods.
 - (3) **“Flowback water”** means the fluid returned after the hydraulic fracturing process is completed, where the internal pressure of the rock formation causes fluid to return to the surface through the wellbore. Flowback water is a component of produced water.
 - (4) **“Food crop application”** means application of reuse water to domestic plants which are produced for the purpose of or may be used in whole or in part for, consumption by people or livestock, including, but not limited to nursery, root, seedstock to be used for the production of food crops.
 - (5) **“Formation water”** means water that occurs naturally within the pores of rock.
- G. Terms beginning with the letter “G”.**
 - (1) **“Ground water”** as defined in 20.6.2 NMAC.
- H. Terms beginning with the letter “H”.**
 - (1) **“Hydraulic fracturing”** means a technique that fractures a rock formation that stimulates the flow of natural gas or oil, increasing the volumes that can be recovered. Fractures are created by pumping large quantities of fluids at high pressure down a wellbore and into the target rock formation. Hydraulic fracturing fluid, also referred to as fracking fluid, commonly consists of water, proppant, and chemical additives that open and enlarge fractures that can extend several hundred feet away from the wellbore. This technique is generally used in unconventional oil and gas production.
- I. Terms beginning with the letter “I”.**
 - (1) **“Indirect potable application”** means the application of reclaimed wastewater for drinking water purposes with an intermediary environmental or constructed buffer.
 - (2) **“Industrial application”** means the application of reuse water in any activity that is used in connection with industrial processes, such as alternative energy, hydrogen production, cooling water, process/boiler feeds, utility power plants, chemical plants, and metal working facilities where at a minimum, public access is restricted or limited.
 - (3) **“Industrial project”** means a reuse water project that does not discharge and that is used in connection with industrial processes, such as alternative energy, hydrogen production, cooling water, process/boiler feeds, utility power plants, chemical plants, and metal working facilities where at a minimum, public access is restricted or limited.
 - (4) **“Injection”** as defined in 20.6.2 NMAC
 - (5) **“Irrigation application”** means application of reuse water to land areas to foster plant growth.
- J. Terms beginning with the letter “J”. [RESERVED]**
- K. Terms beginning with the letter “K”. [RESERVED]**
- L. Terms beginning with the letter “L”.**
 - (1) **“Land application”** means the application of reuse water to the ground surface in which no other application has been assessed and to which the application or run-off does directly or indirectly enter a surface or ground water of the state.
 - (2) **“Livestock application”** means the application of reuse water for the consumption of water for the care and feeding of domestic animals such as cattle or horses. Livestock application does not include the use of water in connection with the operation or maintenance of feedlots or agricultural application of water.
- M. Terms beginning with the letter “M”. [RESERVED]**
- N. Terms beginning with the letter “N”.**

(1) **“National Pollutant Discharge Elimination System”** means the federal program for issuing, modifying, revoking, and reissuing, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the federal Clean Water Act. The NPDES program is administered by the United States Environmental Protection Agency (EPA) in the State of New Mexico.

(2) **“NTU”** means nephelometric turbidity units, measured by a nephelometer.

(3) **“NPDES permit”** means a national pollutant discharge elimination permit which is an authorization, license, or equivalent control document issued by the authorized permitting entity to implement the requirements of the federal program as identified in 40 C.F.R. Sections 122, 123, and 124.

O. Terms beginning with the letter “O”. [RESERVED]

P. Terms beginning with the letter “P”.

(1) **“Person”** as defined in 20.6.2 NMAC.

(2) **“Pilot project”** means a representative engineering scale model or prototype system that is beyond the bench-scale and tested in a non-laboratory environment. A pilot project represents an increase in the technological scale than otherwise achievable in a laboratory and often involves larger quantities of materials over longer periods of time.

(3) **“Potable”** describes water that is suitable for human consumption.

(4) **“Pretreatment”** means the reduction, elimination, or alteration of pollutants in wastewater prior to or in lieu of discharging into a publicly owned treatment works (POTW) or other wastewater treatment facility. The reduction or alteration may be obtained by physical, chemical, or biological processes, process changes, or by other means. Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities, for protection against volumetric or pollutant surges or load variations that might interfere with or otherwise be incompatible with the treatment facility.

(5) **“Produced water”** means a fluid (wastewater) that is an incidental byproduct from drilling for or the production of oil and gas, and includes formation water, flowback water, and any chemicals added downhole during drilling, production, or maintenance processes during the life cycle of an oil or gas well. Produced water includes known and unknown water pollutants.

Q. Terms beginning with the letter “Q”. [RESERVED]

R. Terms beginning with the letter “R”.

(1) **“Reclaimed wastewater”** means domestic wastewater that has been treated to the specified levels for the defined applications and complies with other applicable local, state, or federal regulations.

(2) **“Recycled produced water”** means produced water that is reconditioned by a recycling facility permitted or registered with the oil conservation division of the energy, minerals, and natural resources department, and is reused within the oil and gas industry for the exploration, drilling, production, treatment or refinement of oil and gas.

(3) **“Restoration application”** or **“ecological application”** means the use of water for the implementation of ecological or environmental restoration activities permitted under applicable state and federal regulations.

(4) **“Reuse water”** means a treated wastewater originating from domestic, industrial, or produced water sources, that has undergone a level of treatment appropriate for an application such as agriculture, irrigation, potable water supplies, aquifer recharge, industrial processes, or environmental restoration. Reuse water has a water quality, based on application, determined to be protective of the environment and human health. For purposes of this Part, reuse is categorized by the source of the water (e.g., “domestic reuse” is wastewater originated from domestic sources following appropriate treatment that may be used for various applications such as irrigation).

S. Terms beginning with the letter “S”.

(1) **“State”** means the state of New Mexico.

(2) **“Surface water”** means a “surface water(s) of the state” as defined in 20.6.4 NMAC.

T. Terms beginning with the letter “T”.

(1) **“Transference”** means the distribution, temporary storage, or disposal of reuse water.

(2) **“Treated produced water”** means produced water that is reconditioned by mechanical or chemical processes into a reusable form.

(3) **“Treated wastewater”** means wastewater that has undergone treatment.

(4) **“Treatment”** means a process in which wastewater has been reconditioned by biological, mechanical, or chemical processes to remove or eliminate contaminants, creating an effluent that can be returned to the water cycle either through discharge, transference, or reuse.

U. Terms beginning with the letter “U”.

- (1) **“Untreated produced water”** means produced water that has not undergone treatment.
- (2) **“Untreated wastewater”** means wastewater that has not undergone treatment.

V. **Terms beginning with the letter “V”. [RESERVED]**

W. **Terms beginning with the letter “W”.**

(1) **“Water contaminant”** means any substance that, if discharged or spilled, could alter the physical, chemical, biological or radiological qualities of water. “Water contaminant” does not mean source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, but may include all other radioactive materials, including but not limited to radium and accelerator-produced isotopes.

(2) **“Water pollutant”** means a water contaminant in such quantity and of such duration as may with reasonable probability injure human health, animal or plant life or property, or to unreasonably interfere with the public welfare or the use of property.

(3) **“Water pollution”** as defined in 20.6.2 NMAC.

(4) **“Wastewater”** means water or other fluids associated directly with sewerage systems, industrial processes, or produced water that is disposed of, or undergoes treatment for discharge, transference, or reuse. Wastewater in this Part does not include dairy wastewater, as defined in 20.6.6 NMAC.

X. **Terms beginning with the letters “X” through “Z”. [RESERVED]**

[20.6.8.7 NMAC – N, mm-dd-yy]

20.6.8.8 – 20.6.8.99 [RESERVED]

[20.6.8.8-20.6.8.99 NMAC – N, mm-dd-yy]

20.6.8.100 GENERAL PROVISIONS: Unless otherwise required by this Part, all persons are subject to the state’s Ground and Surface Water Protection Regulations (20.6.2 NMAC). This includes, but is not limited to, regulations relating to spills, notices of intent, permitting, fees, penalties, compliance orders, and abatement.

[20.6.8.100 NMAC – N, mm-dd-yy]

20.6.8.101 – 20.6.8.199 [RESERVED]

[20.6.8.101-20.6.8.199 NMAC – N, mm-dd-yy]

20.6.8.200 DOMESTIC WASTEWATER REUSE: [RESERVED]

[20.6.8.200 NMAC – N, mm-dd-yy]

20.6.8.201 DIRECT AND INDIRECT POTABLE APPLICATIONS:

A. **Unauthorized applications.** The department shall not approve a discharge permit or a discharge permit modification that includes the discharge of reuse water for direct or indirect potable applications except for those authorized applications identified in Subsection B of 20.6.8.201 NMAC.

B. **Authorized applications.**

(1) **Feasibility studies:** Persons proposing to conduct a feasibility study for direct or indirect potable applications shall;

(a) Comply with all applicable permitting requirements in 20.6.2 and 20.6.4 NMAC.

(b) Ensure there is no connection between a potable water system and the water being studied and no cross connections exist between feasibility study-water and a community’s potable water supply.

(c) Ensure that all direct and indirect potable reuse feasibility studies are conducted in a manner that does not interfere with ongoing operations at the wastewater and drinking water facilities.

(d) Obtain approval from the department, through either a discharge permit or NPDES permit and comply with all conditions therein.

[20.6.8.201 – N, mm-dd-yy]

20.6.8.202-299 [RESERVED]

[20.6.8.202-20.6.8.299 NMAC – N, mm-dd-yy]

20.6.8.300 INDUSTRIAL WASTEWATER REUSE: [RESERVED]

[20.6.8.300 NMAC – N, mm-dd-yy]

20.6.8.301-399 [RESERVED]

[20.6.8.301-20.6.8.399 NMAC – N, mm-dd-yy]

20.6.8.400 PRODUCED WATER REUSE: As provided in the Oil and Gas Act, NMSA 1978, Subsection B of Section 70-13-3, the following provisions apply to the discharge of produced water for activities unrelated to the exploration, drilling, production, treatment, or refinement of oil or gas.

A. General requirements.

(1) **Untreated produced water discharge to surface water:** No person shall cause or allow untreated produced water to discharge so that it may move directly or indirectly to a surface water. The department shall deny certification of any federal permit proposing to discharge untreated produced water to a surface water.

(2) **Treated produced water discharge to surface water:** No person shall cause or allow treated produced water to discharge so that it may move directly or indirectly to a surface water. The department shall deny certification of any federal permit proposing to discharge treated produced water to a surface water.

(3) **Untreated produced water discharge to ground water:** No person shall cause or allow untreated produced water to discharge so that it may move directly or indirectly into ground water. The department shall not approve a discharge permit plan or a discharge permit plan modification that includes the discharge of untreated produced water.

(4) **Treated produced water discharge to ground water:** No person shall cause or allow treated produced water to discharge so that it may move directly or indirectly into ground water. The department shall not approve a discharge permit plan or a discharge permit plan modification that includes the discharge of treated produced water without development and adoption of standards specific to treated produced water (Subsection D of 20.6.8.400 NMAC). Demonstration projects or industrial projects submitted to the department through the notice of intent process in Subsection C of 20.6.8.400 NMAC are authorized to operate, following the determination of no discharge permit required issued by the department.

B. Authorized applications.

(1) Demonstration projects or industrial projects, determined by the department not to require a discharge permit because the Demonstration project or industrial project will not discharge in a manner that may directly or indirectly affect ground or surface water, are subject to the following requirements:

(a) Persons intending to conduct a Demonstration project or industrial project shall secure and comply with all applicable federal, state, and local statutes, permits, and certifications, including the Produced Water Act, NMSA 1978, Sections 70-13-1, et. Seq., and including payment of department fees and satisfying department financial assurance requirements.

(b) The Demonstration project or industrial project shall be designed to provide information specific to untreated produced water quality, treatment technologies, treated produced water quality, treatment volumes, and toxicity studies for potential produced water reuse applications.

(c) In accordance with 20.6.2.1201 NMAC, any person intending to use produced water for approved purposes, unrelated to the production of oil and gas, shall submit to the ground water quality bureau of the department a produced water notice of intent prior to use.

(d) Demonstration projects or industrial projects shall not commence until the Department has made a determination of no permit required on the notice of intent.

(e) Persons transporting, storing, treating, or utilizing untreated or treated produced water shall have written procedures at the locations where the Demonstration project or industrial project is physically located to prevent releases onto the ground, directly or indirectly into ground or surface water.

(f) All untreated and treated produced water shall be handled, transported, and stored in accordance with all other applicable local, state, and federal regulations.

(g) Any release of untreated or treated produced water is subject to the notifications and corrective actions in 20.6.2.1203 NMAC except releases under the authority of the oil conservation commission pursuant to the provisions of the Oil and Gas Act, NMSA 1978, Section 70-2-12 and other laws conferring power on the oil conservation commission and the oil conservation division of the energy, minerals, and natural resources department to prevent or abate water pollution.

(h) Persons disposing of untreated or treated produced water, as part of the final disposition following a Demonstration project or industrial project, shall use one of the following methods in accordance with the relative permit: discharge to a produced water disposal well permitted pursuant to the oil conservation commission's regulations for oil and gas injection at 19.15.26 NMAC, delivery to a surface waste management facility permitted pursuant to the oil conservation commission's regulations for oil and gas surface waste management facilities (19.15.36 NMAC), or disposal in a permanent pit permitted pursuant to the oil conservation commission's regulations for oil and gas pits, closed-loop systems, below-grade tanks and sumps at 19.15.17 NMAC. The Department may consider alternative disposal options on a case-by-case basis.

(i) Persons disposing of the components of a Demonstration project or industrial project using untreated or treated produced water, as part of the final disposition must adhere to all local, state, and federal regulations, as applicable.

C. Notice of intent.

(1) Any person intending to use produced water for an authorized application under Subsection B of 20.6.8.400 NMAC shall submit to the ground water quality bureau of the department a produced water notice of intent prior to use.

(a) Notices shall be on a form provided by the department and shall include the following information:

- (i) the name and address of the person intending to conduct the Demonstration project or industrial project;
- (ii) the location of the intended Demonstration project or industrial project;
- (iii) the Demonstration project or industrial project research plan and objectives;
- (iv) documentation that the Demonstration project or industrial project design is consistent with the approved applications in Subsection B of 20.6.8.400 NMAC;
- (v) the storage, secondary containment and spill prevention methods that will be used to prevent accidental discharges;
- (vi) a plan to transport in and transport out any untreated produced water or treated produced water in a safe manner, in accordance with state and federal regulations;
- (vii) plans for safe handling and proper disposal of produced water and any materials that come into contact with untreated produced water or treated produced water, including soils, plant material, treatment equipment, and containment area materials;
- (viii) the health and safety considerations that minimize the risk of human exposure to produced water via any exposure pathway; and
- (ix) financial assurance in place to cover the cost of cleanup and remediation in the event of failure during operation and closure of the Demonstration project or industrial project.

(b) The department, at its discretion, may request additional information.

(c) Based on the information provided in the notice of intent, the department shall make a determination if the Demonstration project or industrial project meets the requirements in this section. If the Demonstration project or industrial project does not meet the requirements in this section, the person shall not implement the Demonstration project or industrial project as proposed.

(2) Persons implementing Demonstration projects or industrial projects pursuant to Subsection B of 20.6.8.400 NMAC shall submit to the department all research results, including lab analyses of all water contaminants in the untreated produced water and treated produced water, to assist the department in developing standards and assist the commission in promulgation of regulations for the use of treated produced water in a manner that prevents water pollution and protects human health and the environment.

D. Effluent quality. [RESERVED]

[20.6.8.400 NMAC – N, mm-dd-yy]

20.6.8.401-20.6.8.899 [RESERVED]

[20.6.8.401-20.6.8.899 NMAC – N, mm-dd-yy]

20.6.8.900 REFERENCES: [RESERVED]

[20.6.8.900 NMAC – N, mm-dd-yy]

TITLE 20 ENVIRONMENTAL PROTECTION
CHAPTER 6 WATER QUALITY
PART 8 GROUND AND SURFACE WATER PROTECTION –
SUPPLEMENTAL REQUIREMENTS FOR WATER REUSE

20.6.8.1 ISSUING AGENCY: Water Quality Control Commission.
[20.6.8.1 NMAC - N, mm-dd-yy]

20.6.8.2 SCOPE: All persons subject to the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17 and specifically to persons intending to reuse wastewater and their operations.
[20.6.7.2 NMAC - N, mm-dd-yy]

20.6.8.3 STATUTORY AUTHORITY: Standards and regulations are adopted by the commission under the authority of the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17 ~~NMSA 1978~~ and the Produced Water Act, NMSA 1978, Subsection B of Section 70-13-3 ~~NMSA 1978~~ and Subsection D of Section 70-13-4 ~~NMSA 1978~~.
[20.6.8.3 NMAC - N, mm/dd/yy]

20.6.8.4 DURATION: Permanent.
[20.6.8.4 NMAC - N, mm-dd-yy]

20.6.8.5 EFFECTIVE DATE: Month Day, Year, unless a later date is cited at the end of a section.
[20.6.8.5 NMAC - N, mm-dd-yy]

20.6.8.6 OBJECTIVE: The objective of 20.6.8 NMAC is to supplement the general requirements of 20.6.2.1200 through 20.6.2.2201 NMAC and 20.6.4.8 through 20.6.4.900 NMAC, and the general groundwater permitting requirements of 20.6.2.3000 through 20.6.2.3114 NMAC to control the discharges of water contaminants specific to water reuse.
[20.6.8.6 NMAC - N, mm-dd-yy]

20.6.8.7 DEFINITIONS: The following terms as used in this part shall have the following meanings: terms defined in the Water Quality Act, but not defined in this part, will have the meaning given in the act.

A. Terms beginning with numerals or the letter “A,” and abbreviations for units.

(1) **“Agricultural application”** means the application of reuse water for cultivating the soil and growing crops or irrigating pasture for livestock grazing. Agricultural application includes the use of water in connection with the operation or maintenance of feedlots or animal feeding operations (“AFOs”), but not those activities defined as livestock application.

(2) **“Application”** means a final disposition of a treated wastewater for reuse. Applications include, but are not limited to industrial, agricultural, direct potable, indirect potable, recreational turf, rangeland, or ecological restoration water reuse. Applications may have effluent criteria to protect ground water, surface water, and aquatic health.

B. Terms beginning with the letter “B”.

(1) **“Bench-scale project”** means a project or study conducted in a laboratory.

C. Terms beginning with the letter “C”.

(1) **“Commercial application”** means the application of reuse water in connection with any activity that provides, or offers to provide, goods or services for incidental use, such as but not limited to car washes, laundry facilities, window washing, chemical mixing, where public access is not restricted or limited.

D. Terms beginning with the letter “D”.

(1) **“Demonstration project”** means a bench-scale or pilot project, as defined in this Part.

(2) **“Department”** means the New Mexico environment department.

(3) **“Direct potable application”** means the delivery of purified water to a drinking water plant or a drinking water distribution system without an environmental buffer. Additional treatment, monitoring, or an engineered buffer would be used in place of an environmental buffer to provide equivalent protection of public health and response time if the purified water does not meet specifications.

(4) **“Discharge permit”** as defined in 20.6.2 NMAC.

(5) **“Discharge plan”** as defined in 20.6.2 NMAC.

(6) **“Discharge site”** as defined in 20.6.2 NMAC.

(7) **“Disposal”** as defined in 20.6.2 NMAC.

(8) **“Domestic wastewater”** means untreated wastewater containing human excreta and water-carried waste from typical residential plumbing fixtures and activities, including but not limited to, wastes from toilets, sinks, bath fixtures, clothes or dishwashing machines and floor drains.

E. Terms beginning with the letter “E”.

(1) **“Environmental buffer”** means any ground water, streams, lakes, or impoundments used for reuse water storage or conveyance purposes related to an indirect potable application.

F. Terms beginning with the letter “F”.

(1) **“Feasibility study”** means a study conducted by a person to determine if a new or modified domestic wastewater treatment technology will be technically, economically, or financially viable for use in a direct or indirect potable application.

(2) **“Flood irrigation application”** means land application of reuse water by ditches, furrows, pipelines, low flow emitters, and other non-sprinkler methods.

(3) **“Flowback water”** means the fluid returned after the hydraulic fracturing process is completed, where the internal pressure of the rock formation causes fluid to return to the surface through the wellbore. Flowback water is a component of produced water.

(4) **“Food crop application”** means application of reuse water to domestic plants which are produced for the purpose of or may be used in whole or in part for, consumption by people or livestock, including, but not limited to nursery, root, seedstock to be used for the production of food crops.

(5) **“Formation water”** means water that occurs naturally within the pores of rock.

G. Terms beginning with the letter “G”.

(1) **“Ground water”** as defined in 20.6.2 NMAC.

H. Terms beginning with the letter “H”.

(1) **“Hydraulic fracturing”** means a technique that fractures a rock formation that stimulates the flow of natural gas or oil, increasing the volumes that can be recovered. Fractures are created by pumping large quantities of fluids at high pressure down a wellbore and into the target rock formation. Hydraulic fracturing fluid, also referred to as fracking fluid, commonly consists of water, proppant, and chemical additives that open and enlarge fractures that can extend several hundred feet away from the wellbore. This technique is generally used in unconventional oil and gas production.

I. Terms beginning with the letter “I”.

(1) **“Indirect potable application”** means the application of reclaimed wastewater for drinking water purposes with an intermediary environmental or constructed buffer.

(2) **“Industrial application”** means the application of reuse water in any activity that is used in connection with industrial processes, such as alternative energy, hydrogen production, cooling water, process/boiler feeds, utility power plants, chemical plants, and metal working facilities where at a minimum, public access is restricted or limited.

(3) **“Industrial project”** means a reuse water project that does not discharge and that is used in connection with industrial processes, such as alternative energy, hydrogen production, cooling water, process/boiler feeds, utility power plants, chemical plants, and metal working facilities where at a minimum, public access is restricted or limited.

~~(3)~~ (4) **“Injection”** as defined in 20.6.2 NMAC

~~(4)~~ (5) **“Irrigation application”** means application of reuse water to land areas to foster plant growth.

J. Terms beginning with the letter “J”. [RESERVED]

K. Terms beginning with the letter “K”. [RESERVED]

L. Terms beginning with the letter “L”.

(1) **“Land application”** means the application of reuse water to the ground surface in which no other application has been assessed and to which the application or run-off does directly or indirectly enter a surface or ground water of the state.

(2) **“Livestock application”** means the application of reuse water for the consumption of water for the care and feeding of domestic animals such as cattle or horses. Livestock application does not include the use of water in connection with the operation or maintenance of feedlots or agricultural application of water.

M. Terms beginning with the letter “M”. [RESERVED]

N. Terms beginning with the letter “N”.

(1) **“National Pollutant Discharge Elimination System”** means the federal program for issuing, modifying, revoking, and reissuing, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the federal Clean Water Act. The NPDES program is administered by the United States Environmental Protection Agency (EPA) in the State of New Mexico.

(2) **“NTU”** means nephelometric turbidity units, measured by a nephelometer.

(3) **“NPDES permit”** means a national pollutant discharge elimination permit which is an authorization, license, or equivalent control document issued by the authorized permitting entity to implement the requirements of the federal program as identified in 40 C.F.R. Sections 122, 123, and 124.

O. Terms beginning with the letter “O”. [RESERVED]

P. Terms beginning with the letter “P”.

(1) **“Person”** as defined in 20.6.2 NMAC.

(2) **“Pilot project”** means a representative engineering scale model or prototype system that is beyond the bench-scale and tested in a non-laboratory environment. A pilot project represents an increase in the technological scale than otherwise achievable in a laboratory and often involves larger quantities of materials over longer periods of time.

(3) **“Potable”** describes water that is suitable for human consumption.

(4) **“Pretreatment”** means the reduction, elimination, or alteration of pollutants in wastewater prior to or in lieu of discharging into a publicly owned treatment works (POTW) or other wastewater treatment facility. The reduction or alteration may be obtained by physical, chemical, or biological processes, process changes, or by other means. Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities, for protection against volumetric or pollutant surges or load variations that might interfere with or otherwise be incompatible with the treatment facility.

(5) **“Produced water”** means a fluid (wastewater) that is an incidental byproduct from drilling for or the production of oil and gas, and includes formation water, flowback water, and any chemicals added downhole during drilling, production, or maintenance processes during the life cycle of an oil or gas well. Produced water includes known and unknown water pollutants.

Q. Terms beginning with the letter “Q”. [RESERVED]

R. Terms beginning with the letter “R”.

(1) **“Reclaimed wastewater”** means domestic wastewater that has been treated to the specified levels for the defined applications and complies with other applicable local, state, or federal regulations.

(2) **“Recycled produced water”** means produced water that is reconditioned by a recycling facility permitted or registered with the oil conservation division of the energy, minerals, and natural resources department, and is reused within the oil and gas industry for the exploration, drilling, production, treatment or refinement of oil and gas.

(3) **“Restoration application”** or **“ecological application”** means the use of water for the implementation of ecological or environmental restoration activities permitted under applicable state and federal regulations.

(4) **“Reuse water”** means a treated wastewater originating from domestic, industrial, or produced water sources, that has undergone a level of treatment appropriate for an application such as agriculture, irrigation, potable water supplies, aquifer recharge, industrial processes, or environmental restoration. Reuse water has a water quality, based on application, determined to be protective of the environment and human health. For purposes of this Part, reuse is categorized by the source of the water (e.g., “domestic reuse” is wastewater originated from domestic sources following appropriate treatment that may be used for various applications such as irrigation).

S. Terms beginning with the letter “S”.

(1) **“State”** means the state of New Mexico.

(2) **“Surface water”** means a “surface water(s) of the state” as defined in 20.6.4 NMAC.

T. Terms beginning with the letter “T”.

(1) **“Transference”** means the distribution, temporary storage, or disposal of reuse water.

(2) **“Treated produced water”** means produced water that is reconditioned by mechanical or chemical processes into a reusable form.

(3) **“Treated wastewater”** means wastewater that has undergone treatment.

(4) **“Treatment”** means a process in which wastewater has been reconditioned by biological, mechanical, or chemical processes to remove or eliminate contaminants, creating an effluent that can be returned to the water cycle either through discharge, transference, or reuse.

U. Terms beginning with the letter “U”.

- (1) “Untreated produced water” means produced water that has not undergone treatment.
- (2) “Untreated wastewater” means wastewater that has not undergone treatment.

V. Terms beginning with the letter “V”. [RESERVED]

W. Terms beginning with the letter “W”.

(1) “Water contaminant” means any substance that, if discharged or spilled, could alter the physical, chemical, biological or radiological qualities of water. “Water contaminant” does not mean source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, but may include all other radioactive materials, including but not limited to radium and accelerator-produced isotopes.

(2) “Water pollutant” means a water contaminant in such quantity and of such duration as may with reasonable probability injure human health, animal or plant life or property, or to unreasonably interfere with the public welfare or the use of property.

(3) “Water pollution” as defined in 20.6.2 NMAC.

(4) “Wastewater” means water or other fluids associated directly with sewerage systems, industrial processes, or produced water that is disposed of, or undergoes treatment for discharge, transference, or reuse. Wastewater in this Part does not include dairy wastewater, as defined in 20.6.6 NMAC.

X. Terms beginning with the letters “X” through “Z”. [RESERVED]

[20.6.8.7 NMAC – N, mm-dd-yy]

20.6.8.8 – 20.6.8.99 [RESERVED]

[20.6.8.8-20.6.8.99 NMAC – N, mm-dd-yy]

20.6.8.100 GENERAL PROVISIONS: Unless otherwise required by this Part, all persons are subject to the state’s Ground and Surface Water Protection Regulations (20.6.2 NMAC). This includes, but is not limited to, regulations relating to spills, notices of intent, permitting, fees, penalties, compliance orders, and abatement.

[20.6.8.100 NMAC – N, mm-dd-yy]

20.6.8.101 – 20.6.8.199 [RESERVED]

[20.6.8.101-20.6.8.199 NMAC – N, mm-dd-yy]

20.6.8.200 DOMESTIC WASTEWATER REUSE: [RESERVED]

[20.6.8.200 NMAC – N, mm-dd-yy]

20.6.8.201 DIRECT AND INDIRECT POTABLE APPLICATIONS:

A. Unauthorized applications. The department shall not approve a discharge permit or a discharge permit modification that includes the discharge of reuse water for direct or indirect potable applications except for those authorized applications identified in Subsection B of 20.6.8.201 NMAC.

B. Authorized applications.

(1) **Feasibility studies:** Persons proposing to conduct a feasibility study for direct or indirect potable applications shall:

(a) Comply with all applicable permitting requirements in 20.6.2 and 20.6.4 NMAC.

(b) Ensure there is no connection between a potable water system and the water being studied and no cross connections exist between feasibility study-water and a community’s potable water supply.

(c) Ensure that all direct and indirect potable reuse feasibility studies are conducted in a manner that does not interfere with ongoing operations at the wastewater and drinking water facilities.

(d) Obtain approval from the department, through either a discharge permit or NPDES permit and comply with all conditions therein.

[20.6.8.201 – N, mm-dd-yy]

20.6.8.202-299 [RESERVED]

[20.6.8.202-20.6.8.299 NMAC – N, mm-dd-yy]

20.6.8.300 INDUSTRIAL WASTEWATER REUSE: [RESERVED]

[20.6.8.300 NMAC – N, mm-dd-yy]

20.6.8.301-399 [RESERVED]

[20.6.8.301-20.6.8.399 NMAC – N. mm-dd-yy]

20.6.8.400 PRODUCED WATER REUSE: As provided in the Oil and Gas Act, NMSA 1978, NMSA 1978, Subsection B of Sections 70-13-3, ~~B~~, the following provisions apply to the discharge of produced water for activities unrelated to the exploration, drilling, production, treatment, or refinement of oil or gas.

A. General requirements.

(1) **Untreated produced water discharge to surface water:** No person shall cause or allow untreated produced water to discharge so that it may move directly or indirectly to a surface water. ~~water of the state, as defined in Paragraph (5) of Subsection S of 20.6.4.7 NMAC. The department shall deny certification of any federal permit proposing to discharge untreated produced water to a surface water.~~

(2) **Treated produced water discharge to surface water:** No person shall cause or allow treated produced water to discharge so that it may move directly or indirectly to a surface water. ~~water of the state, as defined in Paragraph (5) of Subsection S of 20.6.4.7 NMAC, unless the discharger has obtained a discharge permit approved by the Department. Demonstration projects and industrial applications related to surface waters submitted to the department through the notice of intent process in Subsection C of 20.6.8.400 NMAC, are authorized to operate, following the determination of no discharge permit required issued by the department. The department shall deny certification of any federal permit proposing to discharge treated produced water to a surface water.~~

(3) **Untreated produced water discharge to ground water:** No person shall cause or allow untreated produced water to discharge so that it may move directly or indirectly into ground water. The department shall not approve a discharge permit plan or a discharge permit plan modification that includes the discharge of untreated produced water.

(4) **Treated produced water discharge to ground water:** No person shall cause or allow treated produced water to discharge so that it may move directly or indirectly into ground water. ~~water, unless the discharger has obtained a discharge permit approved by the department. The department shall not approve a discharge permit plan or a discharge permit plan modification that includes the discharge of treated produced water without development and adoption of standards specific to treated produced water (Subsection D of 20.6.8.400 NMAC). ~~D~~~~ Demonstration projects or industrial projects and industrial applications submitted to the department through the notice of intent process in Subsection C of 20.6.8.400 NMAC are authorized to operate, following the determination of no discharge permit required issued by the department.

B. Authorized ~~uses and~~ applications.

(1) Demonstration projects or industrial projects and industrial applications, determined by the department not to require a discharge permit because the Demonstration project or industrial project or industrial application will not discharge in a manner that may directly or indirectly affect ground or surface water, are subject to the following requirements:

(a) Persons intending to conduct a Demonstration project or industrial project or industrial application shall secure and comply with all applicable federal, state, and local statutes, permits, and certifications, including the Produced Water Act, NMSA 1978, Sections 70-13-1, et. Seq., and including payment of department fees and satisfying department financial assurance requirements.

(b) The Demonstration project or industrial project or industrial application shall be designed to provide information specific to untreated produced water quality, treatment technologies, treated produced water quality, treatment volumes, and toxicity studies for potential produced water reuse applications.

(c) In accordance with 20.6.2.1201 NMAC, any person intending to use produced water for approved purposes, unrelated to the production of oil and gas, shall submit to the ground water quality bureau of the department a produced water notice of intent prior to use.

(d) Demonstration projects or industrial projects and industrial applications shall not commence until the Department has made a determination of no permit required on the notice of intent.

(e) Persons transporting, storing, treating, or utilizing untreated or treated produced water shall have written procedures at the locations where the Demonstration project or industrial project or industrial application is physically located to prevent releases onto the ground, directly or indirectly into ground or surface water. ~~or to a surface water of the state.~~

(f) All untreated and treated produced water shall be handled, transported, and stored in accordance with all other applicable local, state, and federal regulations.

(g) Any release of untreated or treated produced water is subject to the notifications and corrective actions in 20.6.2.1203 NMAC except releases under the authority of the oil conservation commission pursuant to the provisions of the Oil and Gas Act, NMSA 1978, Section 70-2-12 and other laws conferring power on the oil conservation commission and the oil conservation division of the energy, minerals, and natural resources department to prevent or abate water pollution.

(h) Persons disposing of untreated or treated produced water, as part of the final disposition following a Demonstration project ~~or industrial project and industrial application~~, shall use one of the following methods in accordance with the relative permit: discharge to a produced water disposal well permitted pursuant to the oil conservation commission's regulations for oil and gas injection at 19.15.26 NMAC, delivery to a surface waste management facility permitted pursuant to the oil conservation commission's regulations for oil and gas surface waste management facilities (19.15.36 NMAC), or disposal in a permanent pit permitted pursuant to the oil conservation commission's regulations for oil and gas pits, closed-loop systems, below-grade tanks and sumps at 19.15.17 NMAC. The Department may consider alternative disposal options on a case-by-case basis.

(i) Persons disposing of the components of a Demonstration project ~~or industrial project or industrial application~~ using untreated or treated produced water, as part of the final disposition must adhere to all local, state, and federal regulations, as applicable.

C. Notice of intent.

(1) ~~In accordance with Subsection B of 20.6.8.400 NMAC, a~~ Any person intending to use produced water for ~~an~~ authorized application ~~under Subsection B of 20.6.8.400 NMACs~~ shall submit to the ground water quality bureau of the department a produced water notice of intent prior to use.

(a) Notices shall be on a form provided by the department and shall include the following information:

(i) the name and address of the person intending to conduct the Demonstration project ~~or industrial project or industrial application~~.

(ii) the location of the intended Demonstration project ~~or industrial project or industrial application~~:

(iii) the Demonstration project ~~or industrial project or industrial application~~ research plan and objectives;

(iv) documentation that the Demonstration project ~~or industrial project or industrial application~~ design is consistent with the approved applications in Subsection B of 20.6.8.400 NMAC;

(v) the storage, secondary containment and spill prevention methods that will be used to prevent accidental discharges;

(vi) a plan to transport in and transport out any untreated produced water or treated produced water in a safe manner, in accordance with state and federal regulations;

(vii) plans for safe handling and proper disposal of produced water and any materials that come into contact with untreated produced water or treated produced water, including soils, plant material, treatment equipment, and containment area materials;

(viii) the health and safety considerations that minimize the risk of human exposure to produced water via any exposure pathway; and

(ix) financial assurance in place to cover the cost of cleanup and remediation in the event of failure during operation and closure of the Demonstration project ~~or industrial project or industrial application~~.

(b) The department, at its discretion, may request additional information.

(c) Based on the information provided in the notice of intent, the department shall make a determination if the Demonstration project ~~or industrial project or industrial application~~ meets the requirements in this section. If the Demonstration project ~~or industrial project or industrial application~~ does not meet the requirements in this section, the person shall not implement the Demonstration project ~~or industrial project or industrial application~~ as proposed.

(2) Persons implementing Demonstration projects ~~or industrial projects or industrial applications~~ pursuant to Subsection B of 20.6.8.400 NMAC shall submit to the department all research results,

including lab analyses of all water contaminants in the untreated produced water and treated produced water, to assist the department in developing standards and assist the commission in promulgation of regulations for the use of treated produced water in a manner that prevents water pollution and protects human health and the environment.

D. Effluent quality. [RESERVED] ~~The water quality criteria adopted by the commission for discharges of treated produced water to surface and ground waters of the state are listed in paragraph (1) of subsection (D) of 20.6.8.400 NMAC. Discharges of untreated produced water to surface or ground waters of the state are prohibited.~~

~~(1) Water Quality Standards [RESERVED]~~

[20.6.8.400 NMAC – N, mm-dd-yy]

20.6.8.401-20.6.8.899 [RESERVED]

[20.6.8.401-20.6.8.899 NMAC – N, mm-dd-yy]

20.6.8.900 REFERENCES: [RESERVED]

[20.6.8.900 NMAC – N, mm-dd-yy]