Received by OCD: 7/8/2024 10:24:56 AM State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 https://www.emnrd.nm.gov/ocd/ocd-e-permitting/
<b>Recycling Facility and/or Recycling Containment</b>
Type of Facility:       Recycling Facility       Recycling Containment*         Type of action:       Permit       Registration         Modification       Extension       extension of cessation of operation         Closure       Other (explain)       extension of cessation of operation
* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.
Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
I.         Operator:       Solaris Water Midstream, LLC.       (For multiple operators attach page with information) OGRID #: 371643         Address:       9651 Katy Fwy, Suite 400, Houston Texas 77024         Facility or well name (include API# if associated with a well):
2.         □ Recvcling Facility:         Location of recycling facility (if applicable): Latitude32.222431° Longitude103.443621° NAD83         Proposed Use: I Drilling* I Completion* I Production* Plugging *         *The re-use of produced water may NOT be used until fresh water zones are cased and cemented         □ Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on         groundwater or surface water.         I Fluid Storage         I Activity permitted under 19.15.36 NMAC explain type: Other explain
For multiple or additional recycling containments, attach design and location information of each containment
Closure Report (required within 60 days of closure completion): Recycling Facility Closure Completion Date:
3.         Image: String-Reinforced         Liner Seams:       Welded         Image: String-Reinforced         Liner Seams:       Welded         Image: Recycling Containment Closure Completion Date:

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#### **Bonding:**

4.

Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or

### operated by the owners of the containment.)

Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$\_\_\_\_\_ (work on these facilities cannot commence until bonding

#### amounts are approved)

Attach closure cost estimate and documentation on how the closure cost was calculated.

#### Fencing:

5.

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify 8ft game fence with 1 strand of barbed wire at the top

#### 6. Signs:

7.

🛛 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

### Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

#### Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

## **General siting**

Ground water is less than 50 feet below the bottom of the Recycling Containment. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells						
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; written approval obtained from the municipality</li> </ul>						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	🗌 Yes 🛛 No					
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; topographic map</li> </ul>	🗌 Yes 🛛 No					
Within a 100-year floodplain. FEMA map	🗌 Yes 🛛 No					
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🔀 No					
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; aerial photo; satellite image</li> </ul>	🗌 Yes 🛛 No					
<ul> <li>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	🗌 Yes 🛛 No					

9.	
<b>Recycling Facility and/or Containment Checklist:</b>	
Instructions: Each of the following items must be attached to the application.	Indicate, by a check mark in the box, that the documents are attached.
<ul> <li>Design Plan - based upon the appropriate requirements.</li> <li>Operating and Maintenance Plan - based upon the appropriate requirement</li> <li>Closure Plan - based upon the appropriate requirements.</li> <li>Site Specific Groundwater Data -</li> <li>Siting Criteria Compliance Demonstrations –</li> <li>Certify that notice of the C-147 (only) has been sent to the surface own</li> </ul>	
<b>Operator Application Certification:</b>	
I hereby certify that the information and attachments submitted with this applica	tion are true, accurate and complete to the best of my knowledge and belief.
Name (Print): Chad Gallagher	Title: Permitting Agent
Signature: Chad Gallagher	Date: 6/30/24
e-mail address:_chad.galfagher@ariswater.com	Telephone: _(575)444-9786
11.	
OCD Representative Signature: Victoria Venegas	Approval Date:07/19/2024
Title:	OCD Permit Number: 1RF-447

 x
 OCD Conditions

 X
 Additional OCD Conditions on Attachment

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				Break in Berms and run-on sto	rm		Leak Detection Working	Freeboard Fluid Level	
Pond or AST	Date	Operator Name	Tear in Liner (Y/N)?	water (Y/N)?	Dead Wildlife (Y/N)?	Oil on fluid (Y/N)?	(Y/N)?	(ft)	Pond Level (ft)
Gama Pond	3/30/2	2022 Daniel Parent	FALSE	FALSE	FALSE	FALSE	TRUE	1.30	11.90
Gama Pond	11/23/2	022 Bradley Webb	TRUE	TRUE	FALSE	FALSE	TRUE	8.90	4.10
Gama Pond	1/2/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	1/9/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	1/16/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	1/23/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	1/30/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	2/6/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	2/14/2	2023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	4.00	6.00
Gama Pond	2/20/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	2/26/2	2023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	6.00	4.00
Gama Pond	3/9/2	2023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	6.00	4.00
Gama Pond	3/17/2	2023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	3/23/2	2023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	3/31/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	4/7/2	023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	4/14/2	2023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	4/21/2	023 Bradley Webb	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	4/28/2	2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	5/5/2	2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	5/12/2	2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	5/19/2	023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	5/26/2	2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	5/29/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	6/4/2	2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	6/12/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	6/19/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	6/26/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	7/3/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	7/10/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	7/17/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	7/24/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	7/31/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	8/7/2	2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	8/14/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	8/21/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	8/27/2	2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	9/3/2	023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	9/10/2	023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	9/15/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	9/18/2	023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00

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Gama Pond	9/24/2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	10/1/2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	10/8/2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	10/15/2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	10/22/2023 Samuel Cantu	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	2.00
Gama Pond	10/31/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	11/7/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	11/14/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	11/14/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	11/21/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	11/28/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	12/5/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	12/12/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	12/19/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	12/21/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	12.00	1.00
Gama Pond	12/25/2023 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	3.00
Gama Pond	1/1/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00
Gama Pond	1/7/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00
Gama Pond	1/20/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	7.00	6.00
Gama Pond	1/21/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00
Gama Pond	1/28/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00
Gama Pond	2/4/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	7.00	6.00
Gama Pond	2/13/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	7.00	6.00
Gama Pond	2/23/2024 Javier Garcia	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	6.00
Gama Pond	2/25/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00
Gama Pond	3/5/2024 Javier Garcia	FALSE	FALSE	FALSE	FALSE	TRUE	10.00	4.00
Gama Pond	3/10/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00
Gama Pond	3/17/2024 Jesus Tambunga	FALSE	FALSE	FALSE	FALSE	TRUE	8.00	5.00

ARIS	AST/Pond Inspection Results								RIS			
WO #	Asset ID	Asset Description	Date Completed	Tear in Liner?	Break in berm?	Run on storm water?	Any dead wildlife?	Bird net secure or bird box functional?	Oil on fluid?	Leak Detection functional?	Freeboard level	Pond level
2126	GAMA	REUSE - POND	03/22/2024	X	X	X	х	Х	х	х	10	5
2956	GAMA	REUSE - POND	03/30/2024	х	х	X	х	x	х	x	8	5
3239	GAMA	REUSE - POND	04/06/2024	X	X	X	х	Х	х	х	10	6.5
4803	GAMA	REUSE - POND	04/13/2024	х	х	X	х	x	х	x	8	5
4838	GAMA	REUSE - POND	04/23/2024	Х	Х	X	х	x	х	х	10	4
5407	GAMA	REUSE - POND	04/27/2024	X	X	X	х	Х	х	х	8	5
6469	GAMA	REUSE - POND	05/04/2024	x	x	X	х	Х	x	х	10	6
6532	GAMA	REUSE - POND	05/11/2024	X	X	X	х	Х	х	х	8	5
6928	GAMA	REUSE - POND	05/20/2024	х	x	Х	х	Х	x	x	10	6
7285	GAMA	REUSE - POND	05/27/2024	Х	х	Х	х	Х	х	х	8	5
7713	GAMA	REUSE - POND	06/04/2024	Х	х	Х	х	Х	х	х	10	6
8316	GAMA	REUSE - POND	06/08/2024	Х	Х	Х	Х	x	х	х	9	4

## Venegas, Victoria, EMNRD

From:	Venegas, Victoria, EMNRD
Sent:	Friday, July 19, 2024 10:34 AM
То:	'Chad Gallagher'
Subject:	1RF-447 - GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629]
Attachments:	C-147 1RF-447 - GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629] 07.19.2024.pdf

## 1RF-447 - GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629]

Good afternoon Mr. Gallagher,

NMOCD has reviewed the cessation of operations extension request submitted by [371643] SOLARIS WATER MIDSTREAM, LLC, on 07/08/2024, Application ID 361561, for 1RF-447 - GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629] in Unit Letter F, Section 14, Township 24S, Range 34E, Lea County, New Mexico. The extension of the cessation of operations is approved with the following conditions of approval:

- 1RF-447 GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629] extension of cessation
  of operations is approved from August 1, 2024, to January 31, 2025. However, if after this 6-month
  period, the containment was not utilized at a minimum of 20% fluid capacity, no additional
  extensions would be granted, and the operator would be directed to remove all fluids and proceed
  with the closure requirements.
- [371643] SOLARIS WATER MIDSTREAM, LLC will maintain a liquid level in the containment that is at least equal to the weight of the liner plus 20%. [371643] SOLARIS WATER MIDSTREAM, LLC may maintain a higher liquid level if they choose.
- [371643] SOLARIS WATER MIDSTREAM, LLC will provide written notice to OCD Permitting at least 72 hours, but no more than one week, prior to the recommencement of operations. Recommencement of recycling operations means that the operator plans to resume moving fluids through the containment and discharging fluids from the containment.
  - At the resumption of recycling operations, [371643] SOLARIS WATER MIDSTREAM, LLC is required to perform an incremental fluid level test for containment liquid levels above the minimum liquid level.
  - [371643] SOLARIS WATER MIDSTREAM, LLC will fill the containment. [371643] SOLARIS WATER MIDSTREAM, LLC will pause filling operations at every 10% of total fluid capacity above the minimum level.
  - [371643] SOLARIS WATER MIDSTREAM, LLC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operate the leak detection system at the end of the 24-hour period.
  - If there are no liquids present in the leak detection system, [371643] SOLARIS WATER MIDSTREAM, LLC may proceed to fill the next 10% volume and repeat the process until the containment full design capacity minus the 3-feet of freeboard is reached.
  - If liquids are present, [371643] SOLARIS WATER MIDSTREAM, LLC should immediately cease the incremental fill test and perform a liner inspection. [371643] SOLARIS WATER MIDSTREAM, LLC should provide written notice of the fluid detection and liner inspection findings to OCD via OCD Permitting using a C-147 Long with the "Other" box checked and "Notice of fluid detection" written as the explanation of "Other."
  - If the detected fluid is confirmed to be condensation, the OCD will issue a written approval to proceed with the incremental fluid level test.
  - If the detected fluid is confirmed to be produced water, [371643] SOLARIS WATER MIDSTREAM, LLC must comply with 19.15.34.13 [371643] SOLARIS WATER MIDSTREAM, LLC must provide written notification to OCD Permitting on the actions taken to comply with 19.15.34.13 NMAC.

- After fluid is detected in the leak detection system, the incremental fill test cannot continue until after a written approval to proceed is issued by the OCD.
- [371643] SOLARIS WATER MIDSTREAM, LLC must submit copies of the detailed containment inspection records for the prior three months and a report detailing the incremental fluid level test process and results through OCD Permitting using a C-147 (long form) with the "Other" box checked. "Recommencement of Operations Incremental Fluid Level Test" should be written as the explanation of "Other." Form C-147 must be completed and include information in sections 1 General Information, 2 Recycling Facility, 3 Recycling Containment, 4 Bonding, and 10 Operator Application Certification. Section 9 Recycling Facility and/or Containment Checklist may also need to be partially completed. Operators should verify that the resumption of operations notification does not result in any changes to the recycling containment operating and maintenance plan or the closure plan. If the recommencement of operations will affect the operating and maintenance plan or plan addendums as attachments to the C-147.
- [371643] SOLARIS WATER MIDSTREAM, LLC will continue to operate, maintain, and close 1RF-447 -GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity). A minimum of 3-feet freeboard must always be maintained in the recycling containment during operations.

Please let me know if you have any additional questions. Regards,

Victoria Venegas • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave. Artesia, NM 88210 (575) 909-0269 | <u>Victoria.Venegas@emnrd.nm.gov</u> https://www.emnrd.nm.gov/ocd/



District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	361561
	Action Type:
	[C-147] Water Recycle Long (C-147L)

CONDITIONS							
Created By		Condition Date					
vvenegas	• 1RF-447 - GAMMA RIDGE CONTAINMENT #1 AND #2 FACILITY ID [fSL1933053629] extension of cessation of operations is approved from August 1, 2024, to January 31, 2025. However, if after this 6-month period, the containment was not utilized at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.	7/19/2024					

Action 361561