

Date: December 2, 2021

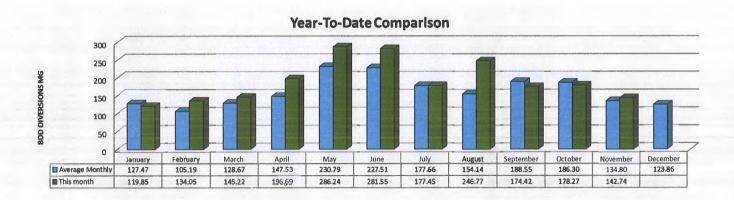
To: Buckman Direct Diversion Board

From: Randy Sugrue, BDD Operations Superintendent

Subject: Update on BDD Operations for the Month of November 2021

ITEM:

- 1. This memorandum is to update the Buckman Direct Diversion Board (BDDB) on BDD operations during the month of November 2021. The BDD diversions and deliveries have averaged, in Million Gallons Per Day (MGD) as follows:
 - a. Raw water diversions: 4.76 MGD.
 - b. Drinking water deliveries through Booster Station 4A/5A: 4.69 MGD.
 - c. Raw water delivery to Las Campanas at BS2A: 0.18 MG on 11/1/21.
 - d. Onsite treated and non-treated water storage: 0.07 MGD Average.
- 2. The BDD is providing approximately 75% percent of the water supply to the City and County for the month.
- 3. The BDD year-to-date diversions are depicted below:



4. Regional Demand/Drought Summary and Storage-see page 2.

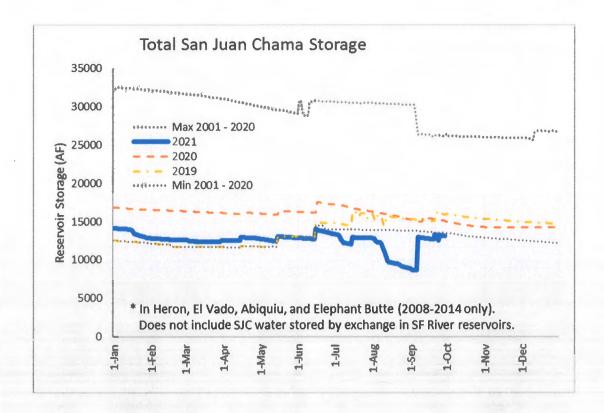
Regional Water Overview

Daily metered regional water demand for the month of November 2021 is approximately 6.3 MGD.

Rio Grande flows for November 2021 averaged approximately 575 CFS (cubic feet per second.)

CRWTP reservoir storage: Nichols: 70%/McClure: 13.5% (23% combined) Watershed Inflow: 0.68 MGD

City/County/LC Storage- as updated by partners.



ENSO Summary

November 22, 2021

ENSO Alert System Status: La Niña Advisory

La Niña is present.*

Equatorial sea surface temperatures (SSTs) are below average across the central and east-central Pacific Ocean.

The tropical Pacific atmosphere is consistent with La Niña conditions.

La Niña is likely to continue through the Northern Hemisphere winter 2021-22 (~90% chance) and into spring 2022 (~50% chance during March-May).



Nov-21		TABLOM IVEOL	nthly SJC and l	In Acre-Fe			I
Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	SJC Call Total	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partner Conveyand Losses
JAN	378.548	42.119	0.000	336.429	336.429	0.000	3.456
FEB	408.601	191.550	0.000	217.051	217.051	0.000	2.229
MAR	442.832	442.832	0.000	0.000	0.000	0.000	0.000
APR	624.282	506.349	0.000	117.933	117.933	0.000	1.195
MAY	868.184	483.518	0.000	384.666	384.666	0.000	2.477
JUN	879.493	302.801	0.000	576.692	576.692	0.000	3.555
JUL	562.156	-17.518	0.000	579.674	579.674	0.000	2.767
AUG	758.665	-0.154	0.000	758.819	758.819	0.000	3.757
SEP	542.059	-49.305	0.000	591.364	591.364	0.000	2.930
OCT	553.705	-22.895	0.000	576.600	576.600	0.000	5.614
NOV	438.210	383.033	0.000	55.177	55.177	0.000	0.543
DEC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	6,456.735	2,262.328	0.000	4,194.406	4,194.406	0.000	28.523
	15		n Million Galle Native	ons			All
	Month	Native COUNTY	Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	Partners Diversion
	JAN	13.720	0.000	108.306	108.306	0.000	122.026
	FEB	62.394	0.000	69.875	69.875	0.000	132.269
	MAR	144.245	0.000	0.000	0.000	0.000	144.245
	APR	164.934	0.000	37.971	37.971	0.000	202.906
	MAY	157.498	0.000	123.871	123.871	0.000	281.369
	JUN	98.632	0.000	185.788	185.788	0.000	284.420
	JUL	-5.706	0.000	186.765	186.765	0.000	181.059
	AUG	-0.050	0.000	244.396	244.396	0.000	244.346
	SEP	-16.060	0.000	190.470	190.470	0.000	174.409
	OCT	-7.458	0.000	185.724	185.724	0.000	178.266
	NOV	124.766	0.000	17.973	17.973	0.000	142.740
	DEC	0.000	0.000	0.000	0.000	0.000	0.000



	Direct Dive	ersion Mon	thly SJC and Na		-		Parameter
Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	In Acre-Fe	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partner Conveyanc Losses
JAN	438.797	134.433	0.000	304.364	298.249	6.115	2.759
FEB	396.508	218.194	0.000	178.314	178.314	0.000	1.679
MAR	357.764	185.598	0.000	172.165	172.165	0.000	1.621
APR	372.408	187.945	0.000	184.463	122.188	62.275	1.737
MAY	641.374	529.897	0.000	111.477	111.477	0.000	0.889
JUN	637.220	509.818	0.000	127.402	1.618	125.784	1.017
JUL	784.520	0.000	0.000	784.520	784.520	0.000	3.663
AUG	886.856	12.503	0.000	874.354	839.919	34.435	4.214
SEP	762.357	0.000	0.000	762.357	682.674	79.683	3.556
OCT	593.109	0.000	0.000	593.109	539.638	53.472	5.845
NOV	390.743	353.481	0.000	37.261	37.261	0.000	0.345
DEC	392.394	355.317	0.000	37.077	37.077	0.000	0.377
TOTAL	6,654.050	2,487.186	0.000	4,166.864	3,805.100	361.764	27.701
			In Million Gallo	a ma			
	Month	Native	Native Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	All Partners Diversions
	JAN	43.789	0.000	98.103	96.304	1.975	141.892
	FEB	71.073	0.000	57.454	57.454	0.000	128.527
	MAR	60.456	0.000	55.473	55.473	0.000	115.928
	APR	61.220	0.000	59.435	39.440	20.101	120.655
	MAY	172.605	0.000	35.812	35.812	0.000	208.417
	JUN	166.065	0.000	40.927	0.520	40.407	206.992
	JUN JUL	166.065 0.000	0.000	40.927 252.754	0.520 252.754	40.407 0.000	206.992 252.754
	JUL	0.000	0.000	252.754	252.754	0.000	252.754
	JUL AUG	0.000	0.000	252.754 281.681	252.754 271.072	0.000 11.113	252.754 285.754
	JUL AUG SEP	0.000 4.073 0.000	0.000 0.000 0.000	252.754 281.681 245.686	252.754 271.072 219.960	0.000 11.113 25.726	252.754 285.754 245.686
	JUL AUG SEP OCT	0.000 4.073 0.000 0.000	0.000 0.000 0.000 0.000	252.754 281.681 245.686 191.019	252.754 271.072 219.960 174.109	0.000 11.113 25.726 17.252	252.754 285.754 245.686 191.019

Memorandum



Date:

December 2, 2021

To:

Buckman Direct Diversion Board

From:

Nancy R. Long

Subject:

Appointment of Citizen Member and Alternate Citizen Member

Item and Issue:

Appointment of the citizen member and alternate citizen member to the Buckman Direct Diversion Board (BDDB).

Background and Summary:

The Joint Powers Agreement ("JPA"), as amended, establishing the BDDB, provides for the appointment of a citizen member and alternate citizen member to the BDDB by a majority vote of the four other voting members of the BDDB. The current Citizen Member is J.C. Helms and the Alternate Citizen Member is Peter Ives. The term of the citizen member and alternate citizen member is two years, and the current members were appointed for a two-year term in February 2020. The current terms for both the Citizen Member and Alternate Citizen Member expire on February 6, 2022.

During the last selection process, the BDDB staff advertised for the citizen member position and alternate citizen member position by placing public notices in the *Santa Fe New Mexican*, and on the BDDB's, the City's and County's websites. Then, a committee consisting of a City member, a County member, the BDDB attorney and the Facilities Manager, held interviews of the applicants and made recommendations to the full board. The selection process this time could follow the same process or proceed otherwise as the Board determines.

Action Requested:

The BDDB staff and attorney seek direction on the appointment of the citizen members.





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Memorandum



Date: November 19, 2021

To: Buckman Direct Diversion Board

From: Rick Carpenter, BDD Facility Manager

Kyle Harwood, BDD Legal Counsel

Re: Update on BDD Board LANL MOU

Item and Issue:

The current BDD Board LANL MOU was extended last month to an expiration date of February 9, 2022.

Background:

BDD Board staff, consultants and counsel have been discussing changes to the current MOU with LANL Site office counterparts. We will present the agreed upon edits and the changes that do not have consensus at the Board meeting.

Attached to this memo is the current MOU and extension letter approved at the last Board meeting in November.

Recommendations:

To be determined by the BDD Board.





Michael Mikolanis, Manager
U.S. Department of Energy, Office of Environmental Management
Los Alamos Field Office
1200 Trinity Drive, Suite 400
Los Alamos, New Mexico 87544

cc: John Evans, Counsel, Environmental Management, Los Alamos Field Office Cheryl Rodriquez, Program Manager, Environmental Management, Los Alamos Field Office

November 5, 2021

Re: Extension of the Memorandum of Understanding between the U.S. Department of Energy and the Buckman Direct Diversion Board Regarding Notification and Water Quality Monitoring

On November 20, 2017, the BDD Board and Doug Hintze, Manager, Environmental Management, Los Alamos Field Office executed a Memorandum of Understanding between the U.S. Department of Energy and the Buckman Direct Diversion Board Regarding Notification and Water Quality Monitoring (MOU). The MOU has a provision that allows for the extension of the MOU for an optional three (3) year period (see Article I. Period of Agreement, Modification or Termination).

On November 19, 2020, the BDD Board and DOE extended the MOU from December 1, 2020 to December 1, 2021. The Parties now agree to extend the MOU to February 9, 2022. This extension will not preclude the Parties' ability to agree to further extensions as contemplated by Article I (up to three (3) years).

Upon the advice of counsel, the Parties' signature below by the BDD Board Chairperson and the Manager, Environmental Management, Los Alamos Field Office extend the November 20, 2017 MOU until February 9, 2022.

Buckman Direct Diversion Board/ Anna Hansen, BDD Board Chairperson	11/9/2021 Date/
Department of Energy	
Michael A. Mikolanis Digitally signed by Michael A. Mikolanis Date: 2021.11.15 17:06:34 -07'00'	
Michael Mikolanis, Manager Environmental Management, Los Alamos Field Office	Date

1	MEMORANDUM OF UNDERSTANDING BETWEEN THE
2	U.S. DEPARTMENT OF ENERGY AND THE BUCKMAN DIRECT DIVERSION BOARD
3	REGARDING NOTIFICATION AND WATER QUALITY MONITORING
4	A. Parties
5	The Parties to this MOU are the Buckman Direct Diversion Board (BDD Board) and the U.S. Department
6	of Energy (DOE).
7	B. Background
8	The Buckman Direct Diversion (BDD) is designed to divert water from the Rio Grande for use by the City
9	and County of Santa Fe water utilities in the Santa Fe area and to provide a source for the water supply
10	systems of Santa Fe County, the City of Santa Fe and the Club at Las Campanas. The diverted water is
11	San Juan-Chama Project water (a U.S. Bureau of Reclamation interbasin water transfer project) and
12	native New Mexico state waters regulated by the State of New Mexico.
13	The point of diversion for the BDD is on the east bank of the Rio Grande in northern New Mexico, near
14	the historic Buckman townsite. The point of diversion is approximately 15 miles northwest of the City o
15	Santa Fe and is located about three miles downstream from the confluence of the Rio Grande and Los
16	Alamos Canyon (where Route 502 crosses the Rio Grande at Otowi Bridge).
17	The Los Alamos National Laboratory (LANL) is owned and operated by DOE and is located on the Pajarito
18	Plateau above the Los Alamos/Pueblo Canyon watershed. The Los Alamos/Pueblo Canyon system
19	intermittently and infrequently flows to the Rio Grande just below the Otowi Bridge and upstream of
20	the BDD Project point of diversion. The Los Alamos/Pueblo Canyon watershed contains sediments with
21 22	LANL-origin contamination from historic releases from LANL. Rain events may cause the transport of sediments, and these sediments have in the past and may in the future be transported to the Rio
23	Grande and then to the BDD intake. The Los Alamos/Pueblo system has been investigated under the
24	2005 Compliance Order on Consent between DOE and the State of New Mexico Environment
25	Department and which has been superseded by the 2016 Compliance Order on Consent. Measures
26	have been implemented (including infrastructure installation) to reduce the transport of contaminated
27	sediment.
28	The New Mexico legislature encouraged the BDD Board and DOE to memorialize their agreement to
29	certain activities relating to the mitigation and monitoring of LANL-origin water quality contaminants.

The BDD Board requested a written agreement with LANL and DOE in 2007 and the New Mexico legislature passed resolutions in 2009 and 2010 that ultimately resulted in the Memorandum of

Understanding that was executed on May 13, 2010 (the 2010 MOU). The 2010 MOU represented an

agreement between the Parties that water quality management and monitoring are mutual priorities

and that the activities described were consistent with, and would be carried out subject to, the policies, regulations, and applicable laws that pertain to the Parties. On January 12, 2015, the parties executed a

second and renegotiated MOU to further govern operations of the BDD Project. Upon the execution of

- 37 this MOU, the 2015 MOU will be terminated in accordance with Section J of that 2015 MOU and this
- 38 MOU shall evidence the consent of the Parties to the termination.

C. Objective

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- 40 This MOU establishes roles and responsibilities with regard to coordination of notification activities by
- 41 the DOE and their contractor in Los Alamos and Pueblo Canyons and with regard to water quality
- 42 sampling by the BDD at the BDD intake in relation to operation of the BDD Project. The primary
- 43 objectives of this MOU include the following:
 - 1. To continue the relationship developed between DOE and the BDD, and
 - 2. To maintain the Early Notification System (ENS) to enable BDD staff to make decisions regarding facility operations, and
 - 3. To support water quality surveillance monitoring at the BDD Project location as part of its sampling program.

D. Authorities

- The Parties represent that they have the authority to enter into this MOU and are able to meet the respective commitments herein to the extent permitted by law.
- 52 1. DOE. DOE is authorized to enter into this MOU pursuant to the Atomic Energy Act, as amended (Title 42 U.S.C. 2011, et seq.).
 - 2. BDD Board. The BDD Board is authorized to enter into this MOU pursuant to the March 7, 2005, Joint Powers Agreement between Santa Fe County and the City of Santa Fe and associated state, county, and municipal laws.

E. Agreement Principles

E.1 Memorandum of Agreement and Protocols between DOE and the Pueblo de San Ildefonso

The Parties recognize that DOE must comply with the requirements of the 2014 Memorandum of Agreement between DOE and the Pueblo de San Ildefonso (Pueblo), as amended in 2015, and the associated *Protocols for Access to Pueblo Lands and for Protecting Confidential Pueblo Information* pertaining to activities on, and information gathered by, DOE on Pueblo property. DOE will consult with the Pueblo as necessary regarding the use of information gathered pursuant to this MOU, and provide an update to BDD Project Staff.

66 E.2 Los Alamos / Pueblo Canyons Early Notification System

- 67 The ENS will continue to provide real time stream flow data or visual verification of flow to the BDD at
- 68 the following gage station locations to enable the BDD staff to make decisions regarding facility

Memorandum of Understanding DOE and BDD Board Notification and Water Quality Monitoring: Page 3 of 8

- operations, including temporarily ceasing diversion of water from the Rio Grande. The ENS includes the following parts:
 - LANL Gage Station E050.1 in Los Alamos Canyon above the Pueblo Canyon confluence,
- LANL Gage Station E060.1 in Pueblo Canyon above the Los Alamos Canyon confluence,
 - Station E062 in the narrow canyon below the confluence of Los Alamos and Pueblo Canyons (visual verification of flow only), and
 - Station E099 in Guaje Canyon on Pueblo property above the confluence of Los Alamos canyon (transducer flow verification only). Date transmission to BDD is dependent upon BDD obtaining a permit from the Pueblo to receive the data.
- 78 LANL ENS stations E050.1 and E060.1 will be equipped with gaging (flow measurement) capabilities,
- 79 real-time conveyance of stream-flow data (telemetry), and camera capability to act as a visual
- 80 verification and backup (or secondary flow indication) for the gaging capabilities. Flows at the LANL
- 81 gage stations E050.1 and E060.1 are measured within a trapezoidal supercritical-flow flume design as
- 82 reported in "Techniques of Water-resources Investigations of the United States Geological Survey,
- 83 Chapter A14, Use of Flumes in Measuring Discharge" (F.A. Kilpatrick and V.R. Snyder, 1983), and
- 84 between approximately 1 and 350 cubic feet per second (cfs). The system shall be capable of a low flow
- 85 trigger stage of 5 cfs (adjustable).

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- 86 Secondary flow indication at stations will consist of either a visual (camera) or transducer signal as
- 87 confirmation of storm water flows. Note that stations E062 and E099 provide primary flow verification
- 88 only. Maintenance of the flow indication equipment shall be the responsibility of DOE.
- 89 Should force majeure destroy or render inoperable some or all of the identified ENS stations, or if
- 90 operational costs become excessive for some or all of the identified stations, DOE shall have the
- 91 prerogative to utilize the most cost effective and technologically advanced techniques to provide BDD
- 92 with equivalent flow data to meet the objective of the ENS.
- 93 The BDD Board will, at its discretion, consult with the Pueblo regarding the installation of a real-time
- 94 flow indicator(s) at the lower Los Alamos Canyon and the Rio Grande and to obtain permission for data
- 95 transmittals from ENS station E099.
- 96 E.3 Rio Grande at BDD Project Location Sampling Program
- 97 The purpose is to provide both base-flow and event-based sampling of the Rio Grande when triggered
- 98 by notification of flows in Los Alamos and/or Pueblo Canyons or as determined by the BDD Board for the
- 99 purpose of water quality sampling of the Rio Grande at BDD in the search for operational criteria for
- 100 ceasing diversion (BDD Project Location Sampling Program).
- 101 DOE shall pay up to \$96,000 in sampling and analytical costs per year for each of the three (3) years
- 102 under this MOU (2018, 2019, and 2020) toward the BDD Project Location Sampling Program at the BDD
- 103 intake. The BDD Board shall be responsible for any additional sampling and analytical costs, and the
- 104 BDD Board is responsible for all maintenance, inspection and repair of the sampling station located at

Memorandum of Understanding
DOE and BDD Board
Notification and Water Quality Monitoring: Page 4 of 8

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105 the BDD intake. DOE will seek funding via a grant to the BDD Board for the sampling and analytical costs, 106 and provide an update to the BDD Project Staff. 107 E.4 TREAT Study 108 BDD Board will fund a continuation of the Contaminant Fate Analysis that was started under the 2010 109 MOU under "The Removal Efficiency and Assessment of Treatments" (TREAT) Study. The TREAT Study 110 will continue to examine the treatment efficiency of the conventional and advanced treatments at the 111 BDD with respect to contaminants in order to help determine the BDD operational criteria for diversion 112 from the Rio Grande. The TREAT Study will focus on the capabilities of the BDD with respect to removal 113 of contaminants as they are found to occur in the Rio Grande at the BDD intake. 114 E.5 Analysis 115 The BDD Board will evaluate the BDD Project Sampling Program results and TREAT data and make a 116 determination on operational parameters or criteria on whether or when to cease diverting waters from 117 the Rio Grande. F. BDD Project Data Sharing 118 119 Real-time flow data and visual verification data from the ENS stations shall be provided by DOE and their 120 contractors to BDD Project as specified in Section E.2. Analytical results from the BDD intake will be 121 made available to both the BDD Board and DOE via the Intellus database as soon as they are available. 122 The BDD Board will make records available to the DOE consistent with requirements specified in the 123 grant. G. Coordination 124 125 DOE and the BDD Board will coordinate as necessary with the Pueblo on any issues related to the 126 implementation of this MOU, and will engage in any consultation required to accomplish the purposes 127 of this MOU. 128 Coordination between the Parties shall be to the mutual benefit of both Parties and shall include data 129 sharing (as above), technical assistance, and data and analysis reviews. Both Parties should allow at 130 least one week for response when requesting technical assistance or data and for analysis reviews. 131 Additional coordination will occur on an as needed basis. H. Contacts 132 133 All notices, correspondence, and communications arising under this MOU shall be provided to the 134 representatives listed below and any notice, demand, request, or information authorized of related to

this MOU shall be deemed to have been given if mailed (return receipt requested), hand-delivered, or

faxed (with confirmation of transmission) as follows:

Memorandum of Understanding DOE and BDD Board Notification and Water Quality Monitoring: Page 5 of 8

137		DOE
138		Douglas E. Hintze
139		Manager
140		DOE, Environmental Management
141		Los Alamos Field Office
142		1900 Diamond Drive, MSM984
143		Los Alamos, NM 87544
144		Phone: 505-665-5658
145		Cell: 505-695-5103
146		Email: douglas.hintze@em.doe.gov
147		
148		With copy to:
149		DOE Counsel
150		Ben Underwood
151		Phone: 505-667-4995
152		Email: ben.underwood@em.doe.gov
153		
154	•	BDD Board
155		Charles Vokes
156		BDD Facility Manager
157		Buckman Direct Diversion
158		341 Caja De Rio Road
159		Santa Fe, NM 87506
160		Phone: 505-955-4507
161		Email: cmvokes@ci.santa-fe.nm.us
162		
163		With copy to:
164		BDD Board Counsel
165		Nancy Long
166		Long, Komer & Associates
167		2200 Brothers Road
168		P.O. Box 5098
169		Santa Fe, NM 87502
170		Cell: 505-470-2158
171		Email nancy@longkomer.com
172		
173		I. Period of Agreement, Modification or Termination
174	This M	OU is effective upon the signature of the BDD Board and DOE as shown below. This agreement is
175		ed to address 2018, 2019 and 2020 and shall expire on December 1, 2020, UNLESS both Parties

Memorandum of Understanding
DOE and BDD Board
Notification and Water Quality Monitoring: Page 6 of 8

agree to extend this MOU for an optional three (3) year period. This optional extension may be executed by a re-signed copy of the signature page by the respective authorized parties to this MOU.

The Parties may modify this MOU by written amendment and in the same manner as this MOU was executed. Either Party may unilaterally terminate this MOU before the date of expiration, provided the Party seeking termination provides written notice to the other Party's representative 90 days before the intended termination date.

J. Dispute Resolution

If the Parties disagree over any issue related to this MOU, representatives of the Parties shall present their differences in writing to the Points of Contact for the other Party. If the Parties fail to resolve their differences within 30 days, the BDD Project Facility Manager and the DOE, Environmental Management, Los Alamos Field Office (EM-LA) Manager shall prepare a written description of the dispute and the BDD Board Chair and the DOE EM-LA Manager, along with appropriate staff, shall meet to reconcile the dispute. These representatives shall use alternative dispute resolution methods such as negotiation, facilitation, and mediation to resolve the dispute.

K. Other Provisions

Nothing in this MOU is intended to conflict with requirements of the Parties or applicable laws. Any such conflicting terms shall be invalid, but the remainder of this MOU shall remain in effect. If a term is deemed invalid, the Parties shall take appropriate action, including amendment or termination. The activities described in this MOU are consistent with, and will be carried out subject to, all known policies, regulations, and applicable laws that pertain to the Parties.

This MOU in no way restricts the Parties from participating in any activity with other public or private agencies, organizations, or individuals.

Activities described in this MOU are subject to the availability of appropriated funds. Both the BDD Board and DOE EM-LA Manager shall make the appropriations of funds for the activities described in this MOU a priority when seeking regular or project specific funding requests.

This MOU describes the basis on which the Parties will cooperate on the topics described herein. This MOU is NOT a financial obligation that serves as a basis for expenditures, and any financial obligations necessary to carry out the activities described herein shall be addressed in other documents internal to each Party. Expenditure of funds, human resources, equipment, supplies, facilities, training, public information, and technical expertise will be provided by each Party as necessary to fulfill its obligations under this MOU.

This MOU is neither a fiscal nor a funds obligation document. Nothing in this MOU authorizes or is intended to obligate the parties to expend, exchange, or reimburse funds, services, or supplies, or transfer or receive anything of value. Any requirement for the payment or obligation of funds by DOE

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DOE and BDD Board
Notification and Water Quality Monitoring: Page 7 of 8

established by the terms of this MOU shall be subject to availability of funds and Secretarial discretion, and no provision herein shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. §1341. This MOU is not legally enforceable and shall not be construed to create any legal obligation on the part of either Party. This MOU shall not be construed to provide a private right, or cause of action, for or by any person or entity. L. Signatures NOW, each of the BDD Board and DOE has caused this MOU to be executed and delivered by its duly authorized representatives as of the last date shown below, **BDD Board** Henry Roybal, BDD Board Chair DOE 24 Nov 2417 Douglas E. Hintze, Manager **Environmental Management, Los Alamos Field Office** This Memorandum of Understanding expires on December 1, 2020.

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