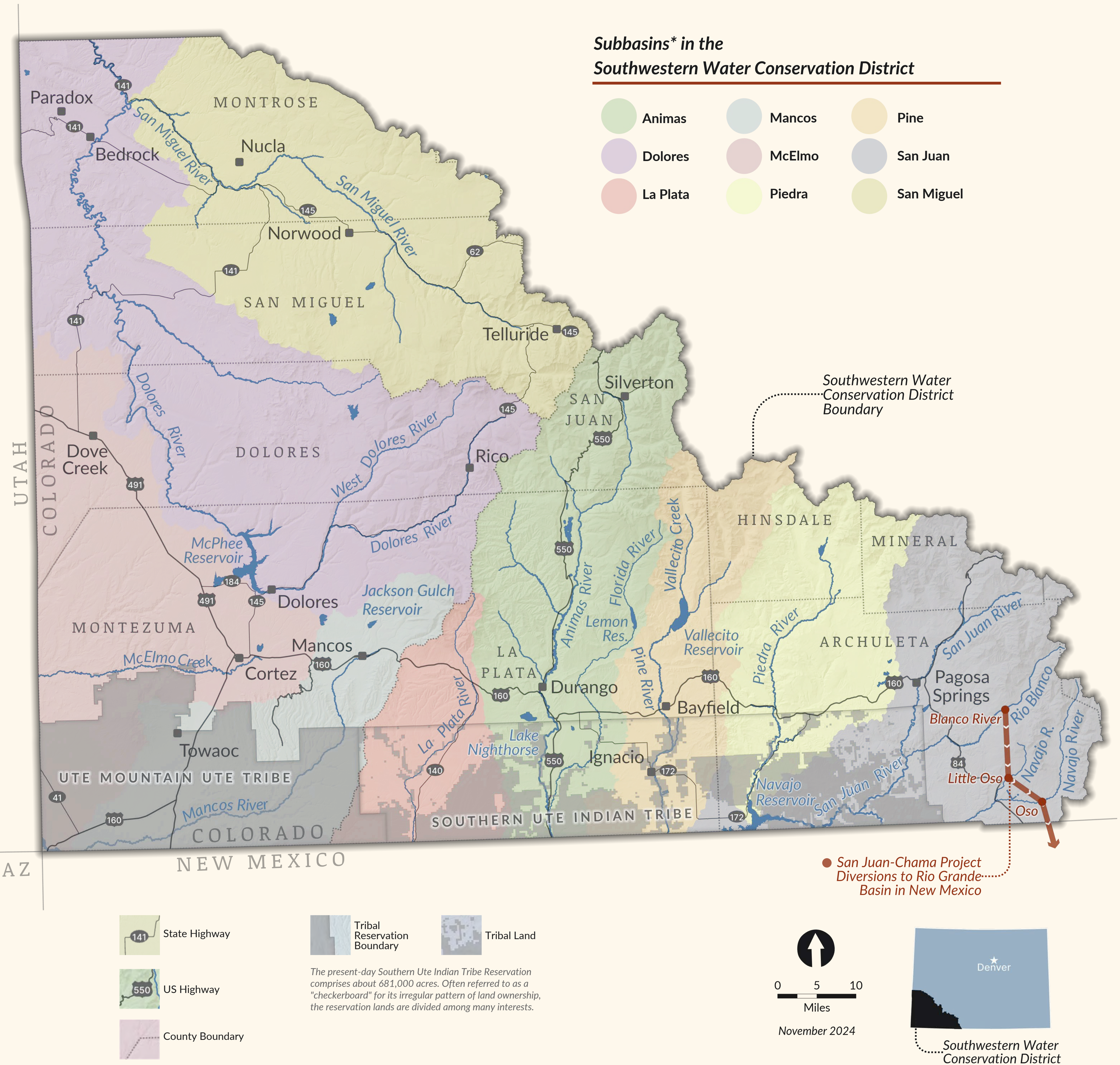




Southwestern Water Conservation District



*Subbasins adapted from USGS Watershed Boundary Dataset HUC 8 Subbasins.





Colorado River Compact

- 37-61-101. Colorado River compact.
- 37-61-102. Compact effective on approval.
- 37-61-103. Approval waived.
- 37-61-104. Certified copies of compact.

37-61-101. Colorado River compact. The General Assembly hereby approves the compact, designated as the "Colorado River Compact", signed at the City of Santa Fe, State of New Mexico, on the 24th day of November, A.D. 1922, by Delph E. Carpenter, as the Commissioner for the State of Colorado, under authority of and in conformity with the provisions of an act of the General Assembly of the State of Colorado, approved April 2, 1921, entitled "An Act providing for the appointment of a Commissioner on behalf of the State of Colorado to negotiate a compact and agreement between the States of Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming and between said States and the United States respecting the use and distribution of the waters of the Colorado River and the rights of said States and the United States thereto, and making an appropriation therefor.", the same being Chapter 246 of the Session Laws of Colorado, 1921, and signed by the Commissioners for the States of Arizona, California, Nevada, New Mexico, Utah, and Wyoming, under legislative authority, and signed by the Commissioners for said seven States and approved by the Representative of the United States of America under authority and in conformity with the provisions of an Act of the Congress of the United States, approved August 19, 1921, entitled "An Act to permit a compact or agreement between the States of Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming, respecting the disposition and apportionment of the waters of the Colorado River, and for other purposes.", which said compact is as follows:

Colorado River Compact

The States of Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming, having resolved to enter into a compact, under the Act of the Congress of the United States of America approved August 19, 1921, (42 Statutes at Large, page 171), and the Acts of the legislatures of the said states, have through their Governors appointed as their commissioners:

W. S. Norviel, for the State of Arizona;
 W. F. McClure, for the State of California;
 Delph E. Carpenter, for the State of Colorado;
 J. G. Scrugham, for the State of Nevada;
 Stephen B. Davis, Jr., for the State of New Mexico;
 R. E. Caldwell, for the State of Utah;
 Frank C. Emerson, for the State of Wyoming;

who, after negotiations participated in by Herbert Hoover appointed by the President as the representative of the United States of America, have agreed upon the following articles:

Article I

The major purposes of this compact are to provide for the equitable division and apportionment of the use of the waters of the Colorado River System; to establish the relative importance of different beneficial uses of water; to promote interstate comity; to remove causes of present and future controversies; and to secure the expeditious agricultural and industrial development of the Colorado River Basin, the storage of its waters and the protection of life and property from floods. To these ends the Colorado River Basin is divided into two Basins, and an apportionment of the use of part of the water of the Colorado River System is made to each of them with the provision that further equitable apportionments may be made.

Article II

As used in this Compact: -

(a) The term "Colorado River System" means that portion of the Colorado River and its tributaries within the United States of America.

(b) The term "Colorado River Basin" means all of the drainage area of the Colorado River System and all other territory within the United States of America to which the waters of the Colorado River System shall be beneficially applied.

(c) The term "States of the Upper Division" means the States of Colorado, New Mexico, Utah and Wyoming.

(d) The term "States of the Lower Division" means the States of Arizona, California and Nevada.

(e) The "Lee Ferry" means a point in the main stream of the Colorado River one mile below the mouth of the Paria River.

(f) The term "Upper Basin" means those parts of the States of Arizona, Colorado, New Mexico, Utah and Wyoming within and from which waters naturally drain into the Colorado River System above Lee Ferry, and also all parts of said States located without the drainage area of the Colorado River System which are now or shall hereafter be beneficially served by waters diverted from the System above Lee Ferry.

(g) The term "Lower Basin" means those parts of the States of Arizona, California, Nevada, New Mexico and Utah within and from which waters naturally drain into the Colorado River System below Lee Ferry, and also all parts of said States located without the drainage area of the Colorado River System which are now or shall hereafter be beneficially served by waters diverted from the System below Lee Ferry.

(h) The term "domestic use" shall include the use of water for household, stock, municipal, mining, milling, industrial and other like purposes, but shall exclude the generation of electrical power.

Article III

(a) There is hereby apportioned from the Colorado River System in perpetuity to the Upper Basin and to the Lower Basin respectively the exclusive beneficial consumptive use of 7,500,000 acre feet of water per annum, which shall include all water necessary for the supply of any rights which may now exist.

(b) In addition to the apportionment in paragraph (a) the Lower Basin is hereby given the right to increase its beneficial consumptive use of such waters by one million acre per annum.

(c) If, as a matter of international comity, the United States of America shall hereafter recognize in the United States of Mexico any right to the use of any waters of the Colorado River System, such waters shall be supplied first from the waters which are surplus over and above the aggregate of the quantities specified in paragraphs (a) and (b); and if such surplus shall prove insufficient for this purpose, then, the burden of such deficiency shall be equally borne by the Upper Basin and the Lower Basin, and whenever necessary the States of the Upper Division shall deliver at Lee Ferry water to supply one-half of the deficiency so recognized in addition to that provided in paragraph (d).

(d) The states of the Upper Division will not cause the flow of the river at Lee Ferry to be depleted below an aggregate of 75,000,000 acre feet for any period of ten consecutive years reckoned in continuing progressive series beginning with the first day of October next succeeding the ratification of this compact.

(e) The States of the Upper Division shall not withhold water, and the States of the Lower Division shall not require the delivery of water, which cannot reasonably be applied to domestic and agricultural uses.

(f) Further equitable apportionment of the beneficial uses of the waters of the Colorado River System unapportioned by paragraphs (a), (b) and (c) may be made in the manner provided in paragraph (g) at any time after October first, 1963, if and when either basin shall have reached its total beneficial consumptive use as set out in paragraphs (a) and (b).

(g) In the event of a desire for a further apportionment as provided in paragraph (f) any two signatory States, acting through their Governors, may give joint notice of such desire to the Governors of the other signatory States and to the President of the United States of America, and it shall be the duty of the Governor of the signatory states and of the President of the United States of America forthwith to appoint representatives, whose duty it shall be to divide and apportion equitably between the Upper Basin and Lower Basin the beneficial use of the unapportioned water of the Colorado River System as mentioned in paragraph

(f), subject to the Legislative ratification of the signatory States and the Congress of the United States of America.

Article IV

(a) Inasmuch as the Colorado River has ceased to be navigable for commerce and the reservation of its waters for navigation would seriously limit the development of its Basin, the use of its waters for purpose of navigation shall be subservient to the uses of such waters for domestic, agricultural and power purposes. If the Congress shall not consent to this paragraph, the other provisions of this compact shall nevertheless remain binding.

(b) Subject to the provisions of this compact, water of the Colorado River System may be impounded and used for the generation of electrical power, but such impounding and use shall be subservient to the use and consumption of such water for agricultural and domestic purposes and shall not interfere with or prevent use for such dominant purposes.

(c) The provisions of this article shall not apply to or interfere with the regulation and control by any state within its boundaries of the appropriation, use and distribution of water.

Article V

The Chief Official of each signatory State charged with the administration of water rights, together with the Director of the United States Reclamation Service and the Director of the United States Geological Survey shall co-operate, ex officio:

(a) To promote the systematic determination and coordination of the facts as to flow, appropriation, consumption and use of water in the Colorado River Basin, and the interchange of available information in such matters.

(b) To secure the ascertainment and publication of the annual flow of the Colorado River at Lee Ferry.

(c) To perform such other duties as may be assigned by mutual consent of the signatories from time to time.

Article VI

Should any claim or controversy arise between any two or more of the signatory States: (a) with respect to the waters of the Colorado River System not covered by the terms of this compact; (b) over the meaning or performance of any of the terms of this compact; (c) as to the allocation of the burdens incident to the performance of any article of this compact or the delivery of waters as herein provided; (d) as to the construction or operation of works within the Colorado River Basin to be situated in two or more States, or to be constructed in one State for the benefit of another State; or (e) as to the diversion of water in one State for the benefit of another State; the Governors of the States affected, upon the request of one of them, shall forthwith appoint Commissioners with power to consider and adjust such claim or controversy, subject to ratification by the Legislatures of the States so affected.

Nothing herein contained shall prevent the adjustment of any such claim or controversy by any present method or by direct future legislative action of the interested States.

Article VII

Nothing in this compact shall be construed as affecting the obligations of the United States of America to Indian tribes.

Article VIII

Present perfected rights to the beneficial use of waters of the Colorado River System are unimpaired by this compact. Whenever storage capacity of 5,000,000 acre feet shall have been provided on the main Colorado River within or for the benefit of the Lower Basin, then claims of such rights, if any, by appropriators or users of waters in the Lower Basin, against appropriators or users of water in the Upper Basin shall attach to and be satisfied from water that may be stored not in conflict with Article III.

All other rights to beneficial use of waters of the Colorado River System shall be satisfied solely from the water apportioned to that Basin in which they are situate.

Article IX

Nothing in this compact shall be construed to limit or prevent any State from instituting or maintaining any action or proceeding, legal or equitable, for the protection of any right under this compact or the enforcement of any of its provisions.

Article X

This compact may be terminated at any time by the unanimous agreement of the signatory States. In the event of such termination all rights established under it shall continue unimpaired.

Article XI

This compact shall become binding and obligatory when it shall have been approved by the Legislatures of each of the signatory States and by the Congress of the United States. Notice of approval by the Legislatures shall be given by the Governor of each signatory State to the Governors of the other signatory States and to the President of the United States, and the President of the United States is requested to give notice to the Governors of the signatory States of approval by the Congress of the United States.

In Witness Whereof, The Commissioners have signed this compact in a single original, which shall be deposited in the archives of the Department of State of the United States of America and of which a duly certified copy shall be forwarded to the Governor of each of the signatory States.

Done at the City of Santa Fe, New Mexico, this Twenty-fourth day of November, A.D. One Thousand Nine Hundred and Twenty-Two.

W. S. Norviel,
W. F. McClure,
Delph E. Carpenter,
J. G. Scrugham,
Stephen B. Davis, Jr.,
R. E. Caldwell,
Frank E. Emerson.
Approved:
Herbert Hoover.

Upper Colorado River Compact

- 37-62-101. Upper Colorado River compact.
- 37-62-102. When compact operative.
- 37-62-103. Interstate agency created by compact.
- 37-62-104. Appointment of Colorado member of commission.
- 37-62-105. Payment of expenses of commission.
- 37-62-106. Administrative code inapplicable.

37-62-101. Upper Colorado River compact. The general assembly hereby ratifies the compact among the states of Colorado, New Mexico, Utah, Wyoming, and Arizona, designated as the "Upper Colorado river basin compact" and signed in the city of Santa Fe, state of New Mexico, on the 11th day of October, A. D. 1948, by Clifford H. Stone, commissioner for the state of Colorado, Fred E. Wilson, commissioner for the state of New Mexico, Edward H. Watson, commissioner for the state of Utah, L. C. Bishop, commissioner for the state of Wyoming, Charles A. Carson, commissioner for the state of Arizona, and approved by Harry W. Bashore, representative of the United States of America. Said compact is as follows:

Article I

(a) The major purposes of this compact are to provide for the equitable division and apportionment of the use of the waters of the Colorado river system, the use of which was apportioned in perpetuity to the upper basin by the Colorado river compact; to establish the obligations of each state of the upper division with respect to the deliveries of water required to be made at Lee ferry by the Colorado river compact; to promote interstate comity; to remove causes of present and future controversies; to secure the expeditious agricultural and industrial development of the upper basin, the storage of water and to protect life and property from floods.

(b) It is recognized that the Colorado river compact is in full force and effect and all of the provisions hereof are subject thereto.

Article II

As used in this compact:

(a) The term "Colorado river system" means that portion of the Colorado river and its tributaries within the United States of America.

(b) The term "Colorado river basin" means all of the drainage area of the Colorado river system and all other territory within the United States of America to which the waters of the Colorado river system shall be beneficially applied.

(c) The term "states of the upper division" means the states of Colorado, New Mexico, Utah and Wyoming.

(d) The term "states of the lower division" means the states of Arizona, California and Nevada.

(e) The term "Lee ferry" means a point in the main stream of the Colorado river one mile below the mouth of the Paria river.

(f) The term "upper basin" means those parts of the states of Arizona, Colorado, New Mexico, Utah and Wyoming within and from which waters naturally drain into the Colorado river system above Lee ferry, and also all parts of said states located without the drainage area of the Colorado river system which are now or shall hereafter be beneficially served by waters diverted from the Colorado river system above Lee ferry.

(g) The term "lower basin" means those parts of the states of Arizona, California, Nevada, New Mexico and Utah within and from which waters naturally drain into the Colorado river system below Lee ferry, and also all parts of said states located without the drainage area of the Colorado river system which are now or shall hereafter be beneficially served by waters diverted from the Colorado river system below Lee ferry.

(h) The term "Colorado river compact" means the agreement concerning the apportionment of the use of the waters of the Colorado river system dated November 24, 1922, executed by commissioners for the

states of Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming, approved by Herbert Hoover, representative of the United States of America, and proclaimed effective by the President of the United States of America, June 25, 1929.

(i) The term "Upper Colorado river system" means that portion of the Colorado river system above Lee ferry.

(j) The term "Commission" means the administrative agency created by article VIII of this compact.

(k) The term "water year" means that period of twelve months ending September 30 of each year.

(l) The term "acre-foot" means the quantity of water required to cover an acre to the depth of one foot and is equivalent to 43,560 cubic feet.

(m) The term "domestic use" shall include the use of water for household, stock, municipal, mining, milling, industrial and other like purposes, but shall exclude the generation of electrical power.

(n) The term "virgin flow" means the flow of any stream undepleted by the activities of man.

Article III

(a) Subject to the provisions and limitations contained in the Colorado river compact and in this compact, there is hereby apportioned from the upper Colorado river system in perpetuity to the states of Arizona, Colorado, New Mexico, Utah and Wyoming, respectively, the consumptive use of water as follows:

(1) To the state of Arizona the consumptive use of 50,000 acre-feet of water per annum.

(2) To the states of Colorado, New Mexico, Utah and Wyoming, respectively, the consumptive use per annum of the quantities resulting from the application of the following percentages to the total quantity of consumptive use per annum appropriated in perpetuity to and available for use each year by upper basin under the Colorado river compact and remaining after the deduction of the use, not to exceed 50,000 acre-feet per annum, made in the state of Arizona.

State of Colorado 51.75 per cent,

State of New Mexico 11.25 per cent,

State of Utah 23.00 per cent,

State of Wyoming 14.00 per cent.

(b) The apportionment made to the respective states by paragraph (a) of this article is based upon, and shall be applied in conformity with, the following principles and each of them:

(1) The apportionment is of any and all man-made depletions;

(2) Beneficial use is the basis, the measure and the limit of the right to use;

(3) No state shall exceed the apportioned use in any water year when the effect of such excess use, as determined by the commission, is to deprive another signatory state of its apportioned use during the water year; provided, that this subparagraph (b) (3) shall not be construed as:

(i) Altering the apportionment of use, or obligations to make deliveries as provided in article XI, XII, XIII or XIV of this compact;

(ii) Purporting to apportion among the signatory states of such uses of water as the upper basin may be entitled to under paragraphs (f) and (g) of article III of the Colorado river compact; or

(iii) Countenancing average uses by any signatory state in excess of its apportionment.

(4) The apportionment to each state includes all water necessary for the supply of any rights which now exist.

(c) No apportionment is hereby made, or intended to be made of such use of water as the upper basin may be entitled to under paragraphs (f) and (g) of article III of the Colorado river compact.

(d) The apportionment made by this article shall not be taken as any basis for the allocation among the signatory states of any benefits resulting from the generation of power.

Article IV

In the event curtailment of use of water by the states of the upper division at any time shall become necessary in order that the flow at Lee ferry shall not be depleted below that required by article III of the Colorado river compact, the extent of curtailment by each state of the consumptive use of water apportioned

to it by article III of this compact shall be in such quantities and at such times as shall be determined by the commission upon the application of the following principles:

(a) The extent and times of curtailment shall be such as to assure full compliance with article III of the Colorado river compact;

(b) If any state or states of the upper division, in the ten years immediately preceding the water year in which curtailment is necessary, shall have consumptively used more water than it was or they were, as the case may be, entitled to use under the apportionment made by article III of this compact, such state or states shall be required to supply at Lee ferry a quantity of water equal to its, or the aggregate of their, overdraft or the proportionate part of such overdraft, as may be necessary to assure compliance with article III of the Colorado river compact, before demand is made on any other state of the upper division:

(c) Except as provided in subparagraph (b) of this article, the extent of curtailment by each state of the upper division of the consumptive use of water apportioned to it by article III of this compact shall be such as to result in the delivery at Lee ferry of a quantity of water which bears the same relation to the total required curtailment of use by the states of the upper division as the consumptive use of the upper Colorado river system water which was made by each such state during the water year immediately preceding the year in which the curtailment becomes necessary bears to the total consumptive use of such water in the states of the upper division during the same water year; provided, that in determining such relation the uses of water under rights perfected prior to November 24, 1922, shall be excluded.

Article V

(a) All losses of water occurring from or as the result of the storage of water in reservoirs constructed prior to the signing of this compact shall be charged to the state in which such reservoir or reservoirs are located. Water stored in reservoirs covered by this paragraph (a) shall be for the exclusive use of and shall be charged to the state in which the reservoir or reservoirs are located.

(b) All losses of water occurring from or as a result of the storage of water in reservoirs constructed after the signing of this compact shall be charged as follows:

(1) If the commission finds that the reservoir is used, in whole or in part, to assist the states of the upper division in meeting their obligations to deliver water at Lee ferry imposed by article III of the Colorado river compact, the commission shall make findings, which in no event shall be contrary to the laws of the United States of America under which any reservoir is constructed, as to the reservoir capacity allocated for that purpose. The whole or that proportion, as the case may be, of reservoir losses as found by the commission to be reasonably and properly chargeable to the reservoir or reservoir capacity utilized to assure deliveries at Lee ferry shall be charged to the states of the upper division in the proportion which the consumptive use of water in each state of the upper division during the water year in which the charge is made bears to the total consumptive use of water in all states of the upper division during the same water year. Water stored in reservoirs or in reservoir capacity covered by this subparagraph (b) (1) shall be for the common benefit of all of the states of the upper division.

(2) If the commission finds that the reservoir is used, in whole or in part, to supply water for use in a state of the upper division, the commission shall make findings, which in no event shall be contrary to the laws of the United States of America under which any reservoir is constructed, as to the reservoir or reservoir capacity utilized to supply water for use and the state in which such water will be used. The whole or that proportion, as the case may be, of reservoir losses as found by the commission to be reasonably and properly chargeable to the state in which such water will be used shall be borne by that state. As determined by the commission, water stored in reservoirs covered by this subparagraph (b) (2) shall be earmarked for and charged to the state in which the water will be used.

(c) In the event the commission finds that a reservoir site is available both to assure deliveries at Lee ferry and to store water for consumptive use in a state of the upper division, the storage of water for consumptive use shall be given preference. Any reservoir or reservoir capacity hereafter used to assure deliveries at Lee ferry shall by order of the commission be used to store water for consumptive use in a state,

provided the commission finds that such storage is reasonably necessary to permit such state to make the use of the water apportioned to it by this compact.

Article VI

The commission shall determine the quantity of the consumptive use of water, which use is apportioned by article III hereof, for the upper basin and for each state of the upper basin by the inflow-outflow method in terms of man-made depletions of the virgin flow at Lee ferry, unless the commission, by unanimous action, shall adopt a different method of determination.

Article VII

The consumptive use of water by the United States of America or any of its agencies, instrumentalities or wards shall be charged as a use by the state in which the use is made; provided, that such consumptive use incident to the diversion, impounding, or conveyance of water in one state for use in another shall be charged to such latter state.

Article VIII

(a) There is hereby created an interstate administrative agency to be known as the "Upper Colorado river commission." The commission shall be composed of one commissioner representing each of the states of the upper division, namely, the states of Colorado, New Mexico, Utah and Wyoming, designated or appointed in accordance with the laws of each such state and, if designated by the President, one commissioner representing the United States of America. The President is hereby requested to designate a commissioner. If so designated the commissioner representing the United States of America shall be the presiding officer of the commission and shall be entitled to the same powers and rights as the commissioner of any state. Any four members of the commission shall constitute a quorum.

(b) The salaries and personal expenses of each commissioner shall be paid by the government which he represents. All other expenses which are incurred by the commission incident to the administration of this compact, and which are not paid by the United States of America, shall be borne by the four states according to the percentage of consumptive use apportioned to each. On or before December 1 of each year, the commission shall adopt and transmit to the governors of the four states and to the President a budget covering an estimate of its expenses for the following year, and of the amount payable by each state. Each state shall pay the amount due by it to the commission on or before April 1 of the year following. The payment of the expenses of the commission and of its employees shall not be subject to the audit and accounting procedures of any of the four states; however, all receipts and disbursements of funds handled by the commission shall be audited yearly by a qualified independent public accountant and the report of the audit shall be included in and become a part of the annual report of the commission.

(c) The commission shall appoint a secretary, who shall not be a member of the commission, or an employee of any signatory state or of the United States of America while so acting. He shall serve for such term and receive such salary and perform such duties as the commission may direct. The commission may employ such engineering, legal, clerical and other personnel as, in its judgment, may be necessary for the performance of its functions under this compact. In the hiring of employees, the commission shall not be bound by the civil service laws of any state.

(d) The commission, so far as consistent with this compact, shall have the power to:

- (1) Adopt rules and regulations;
- (2) Locate, establish, construct, abandon, operate and maintain water gauging stations;
- (3) Make estimates to forecast water run-off on the Colorado river and any of its tributaries;
- (4) Engage in co-operative studies of water supplies of the Colorado river and its tributaries;
- (5) Collect, analyze, correlate, preserve and report on data as to the stream flows, storage, diversions and use of the waters of the Colorado river, and any of its tributaries;
- (6) Make findings as to the quantity of water of the upper Colorado river system used each year in the upper Colorado river basin and in each state thereof;

- (7) Make findings as to the quantity of water deliveries at Lee ferry during each water year;
- (8) Make findings as to the necessity for and the extent of the curtailment of use, required, if any, pursuant to article IV hereof;
- (9) Make findings as to the quantity of reservoir losses and as to the share thereof chargeable under article V hereof to each of the states;
- (10) Make findings of fact in the event of the occurrence of extraordinary drought or serious accident to the irrigation system in the upper basin, whereby deliveries by the upper basin of water which it may be required to deliver in order to aid in fulfilling obligations of the United States of America to the United Mexican States arising under the treaty between the United States of America and the United Mexican States, dated February 3, 1944 (Treaty Series 994) become difficult, and report such findings to the governors of the upper basin states, the President of the United States of America, the United States section of the international boundary and water commission, and such other federal officials and agencies as it may deem appropriate to the end that the water allotted to Mexico under division III of such treaty may be reduced in accordance with the terms of such treaty;
- (11) Acquire and hold such personal and real property as may be necessary for the performance of its duties hereunder and to dispose of the same when no longer required;
- (12) Perform all functions required of it by this compact and do all things necessary, proper or convenient in the performance of its duties hereunder, either independently or in co-operation with any state or federal agency;
- (13) Make and transmit annually to the governors of the signatory states and the President of the United States of America, with the estimated budget, a report covering the activities of the commission for the preceding water year.
- (e) Except as otherwise provided in this compact the concurrence of four members of the commission shall be required in any action taken by it.
- (f) The commission and its secretary shall make available to the governor of each of the signatory states any information within its possession at any time, and shall always provide free access to its records by the governors of each of the states, or their representatives or authorized representatives of the United States of America.
- (g) Findings of fact made by the commission shall not be conclusive in any court, or before any agency or tribunal, but shall constitute prima facie evidence of the facts found.
- (h) The organization meeting of the commission shall be held within four months from the effective date of this compact.

Article IX

- (a) No state shall deny the right of the United States of America and, subject to the conditions hereinafter contained, no state shall deny the right of another signatory state, any person, or entity of any signatory state to acquire rights to the use of water, or to construct or participate in the construction and use of diversion works and storage reservoirs with appurtenant works, canals and conduits in one state for the purpose of diverting, conveying, storing, regulating and releasing water to satisfy the provisions of the Colorado river compact relating to the obligation of the states of the upper division to make deliveries of water at Lee ferry, or for the purpose of diverting, conveying, storing or regulating water in an upper signatory state for consumptive use in a lower signatory state, when such use is within the apportionment to such lower state made by this compact. Such rights shall be subject to the rights of water users, in a state in which such reservoir or works are located, to receive and use water, the use of which is within the apportionment to such state by this compact.
- (b) Any signatory state, any person or any entity of any signatory state shall have the right to acquire such property rights as are necessary to the use of water in conformity with this compact in any other signatory state by donation, purchase or through the exercise of the power of eminent domain. Any signatory state, upon the written request of the governor of any other signatory state, for the benefit of whose water users property is to be acquired in the state to which such written request is made, shall proceed

expeditiously to acquire the desired property either by purchase at a price satisfactory to the requesting state, or, if such purchase cannot be made, then through the exercise of its power of eminent domain and shall convey such property to the requesting state or such entity as may be designated by the requesting state; provided, that all costs of acquisition and expenses of every kind and nature whatsoever incurred in obtaining the requested property shall be paid by the requesting state at the time and in the manner prescribed by the state requested to acquire the property.

(c) Should any facility be constructed in a signatory state by and for the benefit of another signatory state or states or the water users thereof, as above provided, the construction, repair, replacement, maintenance and operation of such facility shall be subject to the laws of the state in which the facility is located, except that, in the case of a reservoir constructed in one state for the benefit of another state or states, the water administration officials of the state in which the facility is located shall permit the storage and release of any water which, as determined by findings of the commission, falls within the apportionment of the state or states for whose benefit the facility is constructed. In the case of a regulating reservoir for the joint benefit of all states in making Lee ferry deliveries, the water administration officials of the state in which the facility is located, in permitting the storage and release of water, shall comply with the findings and orders of the commission.

(d) In the event property is acquired by a signatory state in another signatory state for the use and benefit of the former, the users of water made available by such facilities, as a condition precedent to the use thereof, shall pay to the political subdivisions of the state in which such works are located, each and every year during which such rights are enjoyed for such purposes, a sum of money equivalent to the average annual amount of taxes levied and assessed against the land and improvements thereon during the ten years preceding the acquisition of such land. Said payments shall be in full reimbursement for the loss of taxes in such political subdivisions of the state, and in lieu of any and all taxes on said property, improvements and rights. The signatory states recommend to the President and the congress that, in the event the United States of America shall acquire property in one of the signatory states for the benefit of another signatory state, or its water users, provision be made for like payment in reimbursement of loss of taxes.

Article X

(a) The signatory states recognize La Plata river compact entered into between the states of Colorado and New Mexico, dated November 27, 1922, approved by the congress on January 29, 1925 (43 Stat. 796), and this compact shall not affect the apportionment therein made.

(b) All consumptive use of water of La Plata river and its tributaries shall be charged under the apportionment of article III hereof to the state in which the use is made; provided, that consumptive use incident to the diversion, impounding or conveyance of water in one state for use in the other shall be charged to the latter state.

Article XI

Subject to the provisions of this compact, the consumptive use of the water of the Little Snake river and its tributaries is hereby apportioned between the states of Colorado and Wyoming in such quantities as shall result from the application of the following principles and procedures:

(a) Water used under rights existing prior to the signing of this compact.

(1) Water diverted from any tributary of the Little Snake river or from the main stem of the Little Snake river above a point one hundred feet above the confluence of Savery creek and the Little Snake river shall be administered without regard to rights covering the diversion of water from any down-stream points.

(2) Water diverted from the main stem of the Little Snake river below a point one hundred feet below the confluence of Savery creek and the Little Snake river shall be administered on the basis of an interstate priority schedule prepared by the commission in conformity with priority dates established by the laws of the respective states.

(b) Water used under rights initiated subsequent to the signing of this compact.

(1) Direct flow diversions shall be so administered that, in time of shortage, the curtailment of use on each acre of land irrigated thereunder shall be as nearly equal as may be possible in both of the states.

(2) The storage of water by projects located in either state, whether of supplemental supply or of water used to irrigate land not irrigated at the date of the signing of this compact, shall be so administered that in times of water shortage the curtailment of storage of water available for each acre of land irrigated thereunder shall be as nearly equal as may be possible in both states.

(c) Water users under the apportionment made by this article shall be in accordance with the principle that beneficial use shall be the basis, measure and limit of the right to use.

(d) The states of Colorado and Wyoming each assent to diversions and storage of water in one state for use in the other state, subject to compliance with article IX of this compact.

(e) In the event of the importation of water to the Little Snake river basin from any other river basin, the state making the importation shall have the exclusive use of such imported water unless by written agreement, made by the representatives of the states of Colorado and Wyoming on the commission, it is otherwise provided.

(f) Water use projects initiated after the signing of this compact, to the greatest extent possible, shall permit the full use within the basin in the most feasible manner of the waters of the Little Snake river and its tributaries, without regard to the state line; and, so far as is practicable, shall result in an equal division between the states of the use of water not used under rights existing prior to the signing of this compact.

(g) All consumptive use of the waters of the Little Snake river and its tributaries shall be charged under the apportionment of article III hereof to the state in which the use is made; provided, that consumptive use incident to the diversion, impounding or conveyance of water in one state for use in the other shall be charged to the latter state.

Article XII

Subject to the provisions of this compact, the consumptive use of the waters of Henry's fork, a tributary of Green river originating in the state of Utah and flowing into the state of Wyoming and thence into the Green river in the state of Utah; Beaver creek, originating in the state of Utah and flowing into Henry's fork in the state of Wyoming; Burnt fork, a tributary of Henry's fork, originating in the state of Utah and flowing into Henry's fork in the state of Wyoming; Birch creek, a tributary of Henry's fork originating in the state of Utah and flowing into Henry's fork in the state of Wyoming; and Sheep creek, a tributary of Green river in the state of Utah and their tributaries, are hereby apportioned between the states of Utah and Wyoming in such quantities as will result from the application of the following principles and procedures:

(a) Waters used under rights existing prior to the signing of this compact.

Waters diverted from Henry's fork, Beaver creek, Burnt fork, Birch creek and their tributaries, shall be administered without regard to the state line on the basis of an interstate priority schedule to be prepared by the states affected and approved by the commission in conformity with the actual priority of right of use, the water requirements of the land irrigated and the acreage irrigated in connection therewith.

(b) Waters used under rights from Henry's fork, Beaver creek, Burnt fork, Birch creek and their tributaries, initiated after the signing of this compact shall be divided fifty per cent to the state of Wyoming and fifty per cent to the state of Utah and each state may use said waters as and where it deems advisable.

(c) The state of Wyoming assents to the exclusive use by the state of Utah of the water of Sheep creek, except that the lands, if any, presently irrigated in the state of Wyoming from the water of Sheep creek shall be supplied with water from Sheep creek in order of priority and in such quantities as are in conformity with the laws of the state of Utah.

(d) In the event of the importation of water to Henry's fork, or any of its tributaries, from any other river basin, the state making the importation shall have the exclusive use of such imported water unless by written agreement made by the representatives of the states of Utah and Wyoming on the commission, it is otherwise provided.

(e) All consumptive use of waters of Henry's fork, Beaver creek, Burnt fork, Birch creek, Sheep creek, and their tributaries shall be charged under the apportionment of article III hereof to the state in which

the use is made; provided, that consumptive use incident to the diversion, impounding or conveyance of water in one state for use in the other shall be charged to the latter state.

(f) The states of Utah and Wyoming each assent to the diversion and storage of water in one state for use in the other state, subject to compliance with article IX of this compact. It shall be the duty of the water administrative officials of the state where the water is stored to release said stored water to the other state upon demand. If either the state of Utah or the state of Wyoming shall construct a reservoir in the other state for use in its own state, the water users of the state in which said facilities are constructed may purchase at cost a portion of the capacity of said reservoir sufficient for the irrigation of their lands thereunder.

(g) In order to measure the flow of water diverted, each state shall cause suitable measuring devices to be constructed, maintained and operated at or near the point of diversion into each ditch.

(h) The state engineers of the two states jointly shall appoint a special water commissioner who shall have authority to administer the water in both states in accordance with the terms of this article. The salary and expenses of such special water commissioner shall be paid, thirty per cent by the state of Utah and seventy per cent by the state of Wyoming.

Article XIII

Subject to the provisions of this compact, the rights to the consumptive use of the water of the Yampa river, a tributary entering the Green river in the state of Colorado, are hereby apportioned between the states of Colorado and Utah in accordance with the following principles:

(a) The state of Colorado will not cause the flow of the Yampa river at the Maybell gauging station to be depleted below an aggregate of 5,000,000 acre-feet for any period of ten consecutive years reckoned in continuing progressive series beginning with the first day of October next succeeding the ratification and approval of this compact. In the event any diversion is made from the Yampa river or from tributaries entering the Yampa river above the Maybell gauging station for the benefit of any water use project in the state of Utah, then the gross amount of all such diversions for use in the state of Utah, less any returns from such diversions to the river above Maybell, shall be added to the actual flow at the Maybell gauging station to determine the total flow at the Maybell gauging station.

(b) All consumptive use of the waters of the Yampa river and its tributaries shall be charged under the apportionment of article III hereof to the state in which the use is made; provided, that consumptive use incident to the diversion, impounding or conveyance of water in one state for use in the other shall be charged to the latter state.

Article XIV

Subject to the provisions of this compact, the consumptive use of the waters of the San Juan river and its tributaries is hereby apportioned between the states of Colorado and New Mexico as follows:

The state of Colorado agrees to deliver to the state of New Mexico from the San Juan river and its tributaries which rise in the state of Colorado a quantity of water which shall be sufficient, together with water originating in the San Juan basin in the state of New Mexico, to enable the state of New Mexico to make full use of the water apportioned to the state of New Mexico by article III of this compact, subject, however, to the following:

(a) A first and prior right shall be recognized as to:

(1) All uses of water made in either state at the time of the signing of this compact; and

(2) All uses of water contemplated by projects authorized, at the time of the signing of this compact under the laws of the United States of America whether or not such projects are eventually constructed by the United States of America or by some other entity.

(b) The state of Colorado assents to diversions and storage of water in the state of Colorado for use in the state of New Mexico, subject to compliance with article IX of this compact.

(c) The uses of the waters of the San Juan river and any of its tributaries within either state which are dependent upon a common source of water and which are not covered by (a) hereof, shall in times of water shortages be reduced in such quantity that the resulting consumptive use in each state will bear the same

proportionate relation to the consumptive use made in each state during times of average water supply as determined by the commission; provided, that any preferential uses of water to which Indians are entitled under article XIX shall be excluded in determining the amount of curtailment to be made under this paragraph.

(d) The curtailment of water use by either state in order to make deliveries at Lee ferry as required by article IV of this compact shall be independent of any and all conditions imposed by this article and shall be made by each state, as and when required, without regard to any provision of this article.

(e) All consumptive use of the waters of the San Juan river and its tributaries shall be charged under the apportionment of article III hereof to the state in which the use is made; provided, that consumptive use incident to the diversion, impounding or conveyance of water in one state for use in the other shall be charged to the latter state.

Article XV

(a) Subject to the provisions of the Colorado river compact and of this compact, water of the upper Colorado river system may be impounded and used for the generation of electrical power, but such impounding and use shall be subservient to the use and consumption of such water for agricultural and domestic purposes and shall not interfere with or prevent use for such dominant purposes.

(b) The provisions of this compact shall not apply to or interfere with the right or power of any signatory state to regulate within its boundaries the appropriation, use and control of water, the consumptive use of which is apportioned and available to such state by this compact.

Article XVI

The failure of any state to use the water, or any part thereof, the use of which is apportioned to it under the terms of this compact, shall not constitute a relinquishment of the right to such use to the lower basin or to any other state, nor shall it constitute a forfeiture or abandonment of the right to such use.

Article XVII

The use of any water now or hereafter imported into the natural drainage basin of the upper Colorado river system shall not be charged to any state under the apportionment of consumptive use made by this compact.

Article XVIII

(a) The state of Arizona reserves its rights and interest under the Colorado river compact as a state of the lower division and as a state of the lower basin.

(b) The state of New Mexico and the state of Utah reserve their respective rights and interests under the Colorado river compact as states of the lower basin.

Article XIX

Nothing in this compact shall be construed as:

(a) Affecting the obligations of the United States of America to Indian tribes;

(b) Affecting the obligations of the United States of America under the treaty with the United Mexican States (Treaty Series 994);

(c) Affecting any rights or powers of the United States of America, its agencies or instrumentalities, in or to the waters of the upper Colorado river system, or its capacity to acquire rights in and to the use of said water;

(d) Subjecting any property of the United States of America, its agencies or instrumentalities, to taxation by any state or subdivision thereof, or creating any obligation on the part of the United States of America, its agencies or instrumentalities, by reason of the acquisition, construction or operation of any property or works of whatever kind, to make any payment to any state or political subdivision thereof, state agency, municipality or entity whatsoever, in reimbursement for the loss of taxes;

(e) Subjecting any property of the United States of America, its agencies or instrumentalities, to the laws of any state to an extent other than the extent to which such laws would apply without regard to this compact.

Article XX

This compact may be terminated at any time by the unanimous agreement of the signatory states. In the event of such termination, all rights established under it shall continue unimpaired.

Article XXI

This compact shall become binding and obligatory when it shall have been ratified by the legislatures of each of the signatory states and approved by the congress of the United States of America. Notice of ratification by the legislatures of the signatory states shall be given by the governor of each signatory state to the governor of each of the other signatory states and to the President of the United States of America, and the President is hereby requested to give notice to the governor of each of the signatory states of approval by the congress of the United States of America.

IN WITNESS WHEREOF, the commissioners have executed six counterparts hereof each of which shall be and constitute an original, one of which shall be deposited in the archives of the department of state of the United States of America, and one of which shall be forwarded to the governor of each of the signatory states.

Done at the city of Santa Fe, state of New Mexico, this 11th day of October, 1948.

Charles A. Carlson,
Commissioner for the
State of Arizona.

Clifford H. Stone,
Commissioner for the
State of Colorado.

Fred E. Wilson,
Commissioner for the
State of New Mexico.

Edward H. Watson,
Commissioner for the
State of Utah.

L. C. Bishop,
Commissioner for the
State of Wyoming.

Grover A. Giles,
Secretary.

Approved:

Harry W. Bashore,
Representative of the
United States of America.

DRAFT
SHOSHONE WATER RIGHTS DEDICATION AND ISF AGREEMENT

(Shoshone Water Rights)

This WATER RIGHT DEDICATION and ISF AGREEMENT (“Agreement”), is made as of this ____ day of _____, 2025, by and between the Colorado Water Conservation Board (“CWCB”), an agency of the State of Colorado, the Colorado River Water Conservation District (“River District”), a political subdivision of the State of Colorado, and Public Service Company of Colorado, a Colorado corporation (“PSCo”). The CWCB, the River District, and PSCo may be hereinafter referred to individually as a “party,” and together as the “parties.”

RECITALS

- A. The CWCB is an agency of the State of Colorado created to aid in the protection and development of the waters of the state for the benefit of its present and future inhabitants. In 1973, the General Assembly vested the CWCB with the exclusive authority to appropriate waters of the natural stream for minimum stream flows between specific points on a stream to preserve the natural environment to a reasonable degree.
- B. Pursuant to section 37-92-102(3), C.R.S., the General Assembly has also vested the CWCB with the ability to acquire, by grant, purchase, donation, lease, or other contractual agreement, such water, water rights, and interests in water that are not on the division engineer’s abandonment list in such amount as the CWCB determines is appropriate for stream flows to preserve and/or improve the natural environment to a reasonable degree.
- C. The River District was created by the provisions of sections 37-46-101, C.R.S., *et seq.*, to promote the health and general welfare of the State of Colorado by the conservation, use, and development of the water resources of the Colorado River and its principal tributaries. The River District constituents include West Slope governmental entities and water interests that desire to maintain in perpetuity the flow regime within Water Division 5 created by the historical exercise of the water rights that are the subject of this Agreement.
- D. PSCo is a Colorado corporation and is the owner and operator of the hydroelectric power plant (the “Shoshone Power Plant”) located on the mainstem of the Colorado River in Glenwood Canyon, approximately six miles upstream of Glenwood Springs, Colorado. The Shoshone Power Plant produces hydroelectric energy by means of PSCo’s diversion of the following water rights:
 - (i) The Glenwood Power Canal and Pipeline water right, decreed on December 9, 1907, in Civil Action No. 466, Eagle County District Court, in the amount of 1,250 cubic feet per second of time (“c.f.s.”) with an appropriation date

of January 7, 1902, for power, mining, milling, manufacturing, lighting and heating and traction purposes, and as decreed absolute by the Eagle County District Court on February 27, 1911, in Civil Action No. 553 (the “Senior Shoshone Water Right”); and

- (ii) The Shoshone Hydro Plant Diversion No. 2 water right, decreed absolute on February 7, 1956, in Civil Action No. 1123, Eagle County District Court, in the amount of 158 c.f.s. with an appropriation date of May 15, 1929, for manufacturing and generation of electrical energy (the “Junior Shoshone Water Right”).

Together, these two water rights are referred-to as the “Shoshone Water Rights”.

- E. The Senior Shoshone Water Right is one of the most senior water rights on the Colorado River. During significant periods of the year, there is not sufficient water to satisfy all water rights decreed on the Colorado River and its tributaries within the State of Colorado. At such times, when the measurable Natural Flow of the Colorado River drops below 1,408 c.f.s. (the sum of 1,250 c.f.s. attributable to the Senior Shoshone Water Right and 158 c.f.s. attributable to the Junior Shoshone Water Right) at the streamflow gauge (USGS 09070500) located on the Colorado River near Dotsero, Colorado (“Dotsero Gage”), the Colorado Division of Water Resources (“DWR”) administers a call for the Shoshone Water Rights which results in the curtailment of junior water rights upstream of the Shoshone Power Plant. The Dotsero Gage is the location where the administration and measurement of the Shoshone Water Rights has historically occurred. The “Natural Flow” is the amount of water in the Colorado River measured at the Dotsero Gage, including the amount of water usable by the Shoshone Water Rights when those water rights are in priority, except that the “Natural Flow” does not include any water released from storage and conducted into the Colorado River upstream of the Dotsero Gage (accounting for evaporation and transit loss), which water is intended for delivery for use downstream of the discharge outlets for the Shoshone Power Plant.
- F. The Shoshone Water Rights are decreed for non-consumptive hydropower generation use at the Shoshone Power Plant. All of the water diverted by PSCo for hydropower generation use is returned to the Colorado River after such water is conveyed through the Shoshone Power Plant’s penstocks and turbines, to a point of return at the plant’s discharge outlets that is approximately 2.4 miles downstream of the point of diversion at the Shoshone Diversion Dam and Tunnel, as depicted on the map attached as **Exhibit A**. The approximate locations of the “Shoshone Diversion Dam and Tunnel” and the outfall for the “Shoshone Power Plant Discharge Outlets” are as follows:
 - i. **Shoshone Power Plant Diversion Dam and Tunnel:** on the right bank, being the northerly bank, of the Colorado River whence the North quarter corner of Section Thirty (30), Township Five (5) South, Range Eighty-Seven (87) West of the 6th Principal Meridian bears North 23° 48’20” East 2,414.64 feet, in Garfield County, Colorado.

- ii. **Shoshone Power Plant Discharge Outlets:** on the right bank, being the northerly bank, of the Colorado River whence the Southeast corner of Section Thirty-five (35), Township Five (5) South, Range Eighty-Eight (88) West of the 6th Principal Meridian bears South 29° 24' 14" East, 1,771 feet, in Garfield County, Colorado.¹

The reach of stream between the Shoshone Power Diversion Dam and Tunnel and the Shoshone Power Plant Discharge Outlets is referred to herein as the “Shoshone Reach.” Through this Agreement, the parties seek to preserve and improve the natural environment of the Colorado River within the Shoshone Reach to a reasonable degree.

- G. Pursuant to the Purchase and Sale Agreement between the River District and PSCo, with an effective date of January 1, 2024 (the “PSA”), the River District is the contract purchaser of the Shoshone Water Rights. The PSA provides that PSCo, and its successors and assigns, is entitled to a perpetual leasehold interest in the Shoshone Water Rights for continued use of the Shoshone Water Rights for hydropower generation at the Shoshone Power Plant (the “Lease,” the form of which is attached to the PSA as “Exhibit D”). The PSA (including all its Exhibits and Attachments) is attached and incorporated hereto as **Exhibit B**.
- H. PSCo’s historical exercise of the Shoshone Water Rights has resulted in a streamflow regime that has benefitted the natural environment of the Colorado River basin both upstream and downstream of the Shoshone Power Plant. In addition, the historical exercise of the Shoshone Water Rights has provided benefits to water users throughout the Colorado River basin by providing a relatively predictable water rights administration regime both upstream and downstream of the Shoshone Power Plant.
- I. The parties wish to continue the general historical call operations and maintain the flow regime of the Colorado River, both upstream and downstream of the Shoshone Power Plant. In furtherance of that effort, and subject to the terms of this Agreement, the River District wishes to dedicate to the CWCB, at no additional cost to the CWCB, the exclusive right to use the Shoshone Water Rights for instream flow purposes within the proposed Shoshone Reach to the extent the water rights are not being used for hydropower generation purposes at the Shoshone Power Plant, subject to the requirements of this Agreement. To that end, and subject to the terms set forth herein, the River District, PSCo, and the CWCB agree to jointly file an application to adjudicate a change of the Shoshone Water Rights in Garfield County District Court, Water Division No. 5, (the “Water Court”) to add instream flow use to preserve and improve the natural environment of the Shoshone Reach of the Colorado River to a reasonable degree as an additional beneficial use of the Shoshone Water Rights. Use of the Shoshone Water Rights for instream flow and hydropower purposes shall be subject to any terms and conditions imposed by the change of water right decree to be entered by the Water Court, further described in Paragraphs XX and XX below (the “Decree”).

¹ The legal description set forth above for the Downstream Terminus (Shoshone Power Plant Discharge Outlets) is an approximate location developed by River District staff and may be supplemented or modified at the time a water court application is filed in Water Division No. 5.

- J. At two regularly scheduled public meetings of the CWCB held on [date], and [date], the CWCB considered the River District's proposed dedication of the exclusive right to use the Shoshone Water Rights for instream flow purposes to the CWCB in accordance with section 37-92-102(3), C.R.S., and the Rules Concerning the Colorado Instream Flow and Natural Lake Level Program ("ISF Rule(s)"), 2 CCR 408-2. At its regularly scheduled meeting on [date], the CWCB determined that it is appropriate to enter this Agreement and that the best use of the acquired interest in the Shoshone Water Rights is use up to the full decreed amount of 1,408 c.f.s., for instream flow use to preserve and improve the natural environment to a reasonable degree within the Shoshone Reach. Such use of the Shoshone Water Rights for instream flow purposes can occur within the Shoshone Reach to the extent the Shoshone Water Rights are not being exercised for hydropower generation purposes at the Shoshone Power Plant, up to the full amount of 1,408 c.f.s. of Natural Flow (hereinafter, the "ISF Rate"), subject to the limitations described in Paragraphs 7 and 9 below.
- K. The CWCB, the River District, and PSCo wish to cooperate to implement such legal mechanisms and to obtain such court decree and approvals as are necessary to change the Shoshone Water Rights to include instream flow use for the purpose of preserving and improving the natural environment within the Shoshone Reach, and to protect the Natural Flow ISF Rate through the Shoshone Reach to the extent it is not being exercised for hydropower generation purposes at the Shoshone Power Plant.

AGREEMENT

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

DEDICATION

1. The Recitals to this Agreement are incorporated by this reference and shall constitute part of this Agreement.
2. The River District hereby dedicates to the CWCB, effective as of the date of closing of the PSA, at no additional cost to the CWCB, the exclusive right to use the Shoshone Water Rights for instream flow use within the Shoshone Reach, to the extent such water rights are not being used for hydropower generation purposes at the Shoshone Power Plant pursuant to the Lease, and subject to the requirements of Paragraph 9 below. The River District shall retain title to the Shoshone Water Rights.
3. This Agreement acknowledges the CWCB's consideration of the Colorado Parks and Wildlife analysis showing a biological need to preserve and improve the natural environment of the Shoshone Reach of the Colorado River to a reasonable degree.
4. The parties intend that the Decree, as further described in Paragraphs XX and XX below, shall confirm that the water attributable to the Shoshone Water Rights up to the available ISF Rate will remain in the stream to preserve and improve the environment to a reasonable

degree within the Shoshone Reach where the CWCB does not presently have a decreed instream flow right, to the extent the Shoshone Water Rights are not being used for hydropower generation purposes.

5. The parties intend that the Decree shall confirm that the Shoshone Water Rights shall be administered by the State Engineer and the Division Engineer for Water Division No. 5 (“Engineers”) based on the Natural Flow at the Dotsero Gage. Instream flow use of the Shoshone Water Rights will be administered through the Shoshone Reach where the intended instream flow use will occur with the goal of utilizing the Shoshone Water Rights up to the available ISF Rate without diversion or exchange by intervening water users. The parties intend that the Decree shall also contain an affirmative finding which confirms that the change of the Shoshone Water Rights for the additional instream flow use is administrable by the Engineers and is capable of meeting all applicable statutory requirements.
6. In the event any new infrastructure or stream gaging stations are either necessary or desirable for the implementation of this Agreement, or in the event that any new infrastructure—including measuring devices—are deemed necessary by the Engineers with respect to the Shoshone Water Rights, the parties agree to work cooperatively with each other in good faith to accommodate the installation of any such infrastructure or gaging stations, which are necessary to make water available for use under this Agreement, in an efficient and economical manner.

CONDITIONS ON THE ADMINISTRATION AND EXERCISE OF
THE SHOSHONE WATER RIGHTS FOR INSTREAM FLOW USE

7. It is the intent of the parties that the Shoshone Water Rights will be protected for instream flow use to the maximum extent possible as allowed under the Water Court Decree, to the extent the Shoshone Water Rights are not being used for power generation. To implement this mutual intent, the CWCB agrees that it will request administration of the Shoshone Water Rights for instream flow use in the Shoshone Reach of the Colorado River to preserve and improve the natural environment to a reasonable degree at all times when the Natural Flow of the Colorado River as measured at the Dotsero Gage is less than 1,408 c.f.s., subject only to the limitations set forth below:
 - a. Any terms, conditions, and limits set forth in the Decree;
 - b. Any reduction in instream flow use made pursuant to the terms and conditions of Paragraph 9, below, due to use or planned use of the Shoshone Water Right for power generation; and
 - c. During any period wherein the CWCB and the River District jointly agree in writing to reduce the flow rate requested for administration of the Shoshone Water Rights for instream flow purposes.

8. Pursuant to ISF Rule 10, 2 CCR 408-2, the parties shall cooperate in the administration and monitoring of the instream flow use of the Shoshone Water Rights dedicated to the CWCB under this Agreement so that, subject to the terms of this Agreement and the Decree, the CWCB will maximize the use of the Shoshone Water Rights for instream flow purposes to the extent the rights are not being used for hydropower generation purposes at the Shoshone Power Plant. PSCo, the CWCB and the River District shall coordinate with DWR to monitor the flow and calculate the Natural Flow of the Colorado River at the Dotsero Gage as the point of administration for the Shoshone Water Rights for hydropower generation and instream flow use.
9. The CWCB and the River District shall notify PSCo of any request for administration required by the provisions of this Agreement. PSCo shall provide advance written notice to the River District and the CWCB at least thirty (30) days prior to any scheduled operations or maintenance activities that result in a full or partial shutdown of the Shoshone Power Plant, and shall provide notice as soon as reasonably possible of any unscheduled shutdown or reduction of Shoshone Power Plant operations. During the term of the Lease, the parties will coordinate on at least an annual basis to determine how the Shoshone Water Rights will be allocated between hydropower generation and instream flow use in a manner consistent with the terms and conditions of the Decree that (1) maximizes PSCo's ability to exercise the Shoshone Water Rights for hydropower generation purposes; and (2) maximizes the ability to use the Shoshone Water Rights for instream flow purposes to the extent the water rights are not being used for hydropower generation purposes at the Shoshone Power Plant, in a manner that does not reduce the availability of the Shoshone Water Rights for subsequent hydropower use. Upon termination of the Lease, this paragraph, and any other restrictions on the Shoshone Water Rights throughout this Agreement due to hydropower use, shall no longer be in effect, and, subsequent to any permanent decommissioning of the Shoshone Power Plant, instream flow shall be the only use of the Shoshone Water Rights.
10. Each party to this Agreement shall also immediately report, in writing, to the other parties the nature of any communications with the Engineers concerning the administration of the Shoshone Water Rights as contemplated by this Agreement. Following the closing of the PSA, the parties shall identify those persons and provide such contact information (including email and telephone number) to the other parties necessary to effectuate the purposes hereof.
11. Any rights created by this Agreement are contractual rights. Use by the CWCB for instream flow purposes in accordance with this Agreement does not provide the CWCB an ownership right in the Shoshone Water Rights or in any of the River District or PSCo's facilities or water rights as they exist now or may exist in the future.
12. The CWCB's contractual rights to and interest in the Shoshone Water Rights dedicated to the CWCB for use in the Shoshone Reach under this Agreement extends to and terminates at the downstream termination point of the Shoshone Reach, which is the stream accrual point for the current Shoshone Power Plant Discharge Outlets.

NO CREATION OF RIGHT OF SUCCESSIVE USE OF THE SHOSHONE
WATER RIGHTS DOWNSTREAM OF THE SHOSHONE REACH

13. This Agreement does not recognize any use or create any right of use by the River District of the Shoshone Water Rights downstream of the Shoshone Reach. Notwithstanding the foregoing, this Paragraph 13 does not prevent any use by the River District or its constituents of the natural stream flow downstream of the Shoshone Reach within the priority system and in accordance with Colorado law and the Decree.

WATER COURT PROCEEDINGS

14. The parties shall file and diligently pursue a Water Court application and any necessary appeals to obtain the Decree in a final, unappealable form confirming a change of water right for the Shoshone Water Rights to include the additional use for instream flow purposes by the CWCB and confirming that the water attributable to the Shoshone Water Rights will be used for instream flow to preserve and improve the natural environment in the Shoshone Reach of the Colorado River to a reasonable degree up to the full amount of the ISF Rate , subject to the terms and conditions of the Decree and this Agreement. In such water court application, the CWCB, the River District, and PSCo shall be co-applicants for the purpose of advancing and protecting their contractual rights under this Agreement, including adjudicating a decreed right to use of the Shoshone Water Rights by the CWCB to preserve and improve the natural environment to a reasonable degree within the Shoshone Reach. Except as otherwise provided in the PSA, to which the CWCB is not subject, each party shall bear its own attorney fees and costs related to its participation in any water court adjudication contemplated under this Paragraph 14. Except for its own attorney fees and court filing fees, the CWCB is not responsible for paying costs of prosecuting the water court application, including the costs of hiring a consulting engineer or other witnesses in furtherance of such application, or attorney fees of any other party incurred in relation thereto.
15. The parties intend that the Decree shall confirm that to the extent the water dedicated under this Agreement is not being used for hydropower generation at the Shoshone Power Plant, such water shall be beneficially used by the CWCB for instream flow purposes to preserve and improve the natural environment of the Colorado River within the Shoshone Reach to a reasonable degree, subject to the terms and conditions of the Decree and this Agreement.
16. The parties agree that the Decree shall not confirm any new appropriation of water. Nor shall any claim be included in the Water Court application except as expressly described in this Agreement. The parties further agree that, upon the successful prosecution of the Water Court application described in Paragraph 14, above, and upon the issuance of the Decree by the Water Court, no further claim for approval of any change of water right with respect to the Shoshone Water Rights shall be sought by any of the parties to this Agreement in the future without first obtaining the prior written consent of all the parties hereto. The River District agrees it will not transfer or otherwise encumber the rights to any other person or entity without the express written consent of the CWCB, with the exception of the right to enter into a promissory note and deed of trust to the benefit of

PSCo as provided by paragraph 3.1.d.2 of the PSA. The parties agree to request that the Water Court include an express statement in the Decree setting forth the limitations described in this Paragraph 16, to wit:

- a. the decree does not confirm any new appropriation or change except to add instream flow;
- b. no further claim for approval of any change of the Shoshone Water Rights will be sought by any of the applicants without written consent of the other applicants hereto; and
- c. the River District will not transfer or otherwise encumber the Shoshone Water Rights to any other person or entity without the express written consent of the CWCB.

RECORDS AND ACCOUNTING

17. The River District shall be responsible for maintaining all records and accounting necessary for the implementation of this Agreement, using forms mutually agreeable to the parties, and all records required by the Engineers for the administration of the changed Shoshone Water Rights.
18. The River District will provide accounting related to the operation of this Agreement to the CWCB and PSCo.

MISCELLANEOUS PROVISIONS

19. The term of this Agreement is perpetual unless terminated in accordance with the terms of this Agreement.
20. This Agreement will automatically terminate and be of no further effect in the event that (i) the sale of the Shoshone Water Rights from PSCo to the River District does not close or occur, or (ii) the PSA is terminated or otherwise expires. Except as otherwise provided in the immediately preceding sentence in this Paragraph 20, this Agreement may be amended or terminated by the written agreement of the parties, and any such termination or amendment shall take effect only when signed by all of the parties to this Agreement or their successors in interest.
21. Neither the CWCB nor PSCo is responsible for construction or modification of any structures that may be necessary for use of the Shoshone Water Rights for instream flow purposes.
22. This Agreement shall not be assignable by any party without the written consent of all the parties hereto. Notwithstanding the foregoing, an assignment by PSCo of this Agreement to any successor or assign of its rights under the Lease is approved by the CWCB and River District without separate written consent, however thirty (30) days advanced written notice of the assignment to the River District and the CWCB is required, and PSCo may assign the Lease only to a successive owner or operator of the Shoshone Power Plant for power generation purposes. Notice and contact information shall be provided to all parties concurrent with any assignment. In the event of the termination of the Lease by PSCo or

its successors or assigns pursuant to Paragraph 26, below, the River District and CWCB will not be required to obtain the written consent of PSCo or its successors or assigns to assign this Agreement.

23. Pursuant to section 37-92-102(3), C.R.S., this Agreement shall be enforceable by each of the parties hereto as a water matter according to the terms and conditions of this Agreement. The parties further agree that the exclusive venue for and jurisdiction of any dispute pertaining to the interpretation or enforcement of this Agreement shall be the Water Court (as defined herein); *provided, however*, that before commencing any action for enforcement of this Agreement, the party alleging the violation shall notify the other parties in writing of the alleged violation and the parties shall make a good faith effort to resolve their differences through informal consultation.
24. The parties hereto acknowledge and agree that specific performance of this Agreement shall be the exclusive remedy for failure of any party to comply with any provision of this Agreement. The parties hereby waive any right to seek or collect damages for any breach or violation of this Agreement.
25. Enforcement of this Agreement and all rights and obligations hereunder are reserved solely to the CWCB, the River District, and PSCo, and not to any third party. Any services or benefits which third parties may receive or provide as a result of this Agreement are incidental to the Agreement and do not create any rights for such third parties.
26. The parties anticipate that at some point in the future, PSCo may permanently decommission the Shoshone Power Plant, and the Lease will terminate. In the event that the Lease terminates, then PSCo shall provide written notice to the parties of the termination of the Lease and PSCo's rights and obligations under this Agreement will also be deemed to be terminated; however, all rights and responsibilities between the CWCB and the River District will remain in effect. Upon termination of the Lease, all restrictions on the Shoshone Water Rights throughout this Agreement due to hydropower use shall no longer be in effect, and, subsequent to any permanent decommissioning of the Shoshone Power Plant, instream flow shall be the only use of the Shoshone Water Rights.
27. The provisions of §§37-92-102(3) and 305(3)(b), C.R.S. that require that all contracts or agreements for interests in water, and the water court decree implementing the contracts or agreements, to state the board or the lessor, lender, or donor may bring about beneficial use of the historical consumptive use of the leased, loaned, or donated water right downstream of the instream flow reach as fully consumable water are not relevant and do not apply to this acquisition.
28. In the event the Decree and this Agreement are inconsistent, the Decree shall control.
29. This Agreement shall be construed in accordance with the laws of the State of Colorado and shall be interpreted broadly to give effect to its purposes.

30. Any failure or delay by a party in exercising any of its rights, power, and remedies hereunder or in accordance with laws shall not lead to a waiver of such rights, and the waiver of any single or partial exercise of a party's rights shall not preclude such party from exercising such rights in any other way and exercising the remaining part of the party's rights.
31. Any notice, consent, waiver, request or other communication required or provided to be given under this Agreement shall be in writing and shall be sufficiently given and shall be deemed delivered when: (a) delivered personally; (b) transmitted by email to the then-designated address of the party, provided that a delivery receipt sent by the recipient is received by the sender, provided if the delivery receipt is sent on a non-business day, or after 5:00 p.m. local time at the physical address of the recipient, then the notice will be deemed received on the next business day; (c) two (2) business days after deposit with the United States Postal Service by certified or registered mail, return receipt requested, postage prepaid; or (d) one (1) business day following deposit with a nationally recognized overnight delivery service, in any event, addressed to the applicable party as set forth below, or at such address as either party may from time-to-time specify in writing to the other:

If to the CWCB:

Section Chief
Colorado Water Conservation Board
Stream and Lake Protection Section
1313 Sherman Street, Room 721
Denver, CO 80203
DNR_CWCBISF@state.co.us

and

Jen Mele
First Assistant Attorney General
Natural Resources and Environment Section
1300 Broadway, 7th Floor
Denver, CO 80203
jen.mele@coag.gov

If to PSCo:

Public Service Company of Colorado
Attn: Environmental Services
1800 Larimer Street, Suite 1300
Denver, CO 80202

and

Public Service Company of Colorado
Attn: Legal Dept. – Real Estate
1800 Larimer Street, Suite 1400
Denver, CO 80202

(303) 294-2222
Frances.A.Folin@xcelenergy.com

and

Welborn Sullivan Meck & Tooley, P.C.
Carolyn F. Burr, Esq.
James M. Noble, Esq.
1401 Lawrence Street, Suite 1800
Denver, CO 80202
(303) 830-2500
cburr@wsmtlaw.com
jnoble@wsmtlaw.com

If to the River
District:

Colorado River Water Conservation District
General Manager
Andrew Mueller
201 Centennial St., Suite 200
Glenwood Springs, CO 81601
edinfo@crwcd.org

and

General Counsel,
Peter Fleming, Esq.
201 Centennial St., Suite 200
Glenwood Springs, CO 81601
(970) 945-8522
pfleming@crwcd.org

32. Each provision contained herein shall be severable and independent from each of the other provisions such that if at any time any one or more provisions herein are found to be invalid, illegal, or unenforceable, the validity, legality, or enforceability of the remaining provisions herein shall not be affected as a result thereof.
33. The effective date of this Agreement shall be the last date shown on the signature page or pages of this Agreement, provided however that parties' rights and obligations under this Agreement with specific regard to the exercise of the Shoshone Water Rights for instream flow purposes shall not commence until the closing date of the PSA. If the PSA is terminated according to its terms, then this Agreement shall also automatically terminate. This Agreement may be executed in two or more counterparts, each of which when so executed shall be deemed to be an original and all of which when taken together shall constitute one and the same instrument. The counterparts of this Agreement may be executed and delivered by electronic means (including portable document format) by either of the parties and the receiving party may rely on the receipt of such document so executed and delivered electronically as if the original had been received.

[remainder of page intentionally blank]

[signature page(s) follow]

IN WITNESS WHEREOF, the CWCB, the River District, and PSCo have executed this Agreement as of the last date of execution.

COLORADO WATER CONSERVATION BOARD

By: _____
Lauren Ris, Director

Date: _____

[signatures continue on next page]

[signature page to Water Right Dedication Agreement (Shoshone Water Rights)]

**COLORADO RIVER WATER CONSERVATION
DISTRICT**

ATTEST:

By: _____
Andy Mueller, General Manager

BY: _____

Date: _____

[signatures continue on next page]

[signature page to Water Right Dedication Agreement (Shoshone Water Rights)]

PUBLIC SERVICE COMPANY OF COLORADO

By: _____
Robert Kenney, President

Date: _____

[signature page to Water Right Dedication Agreement (Shoshone Water Rights)]

Exhibit A
(Shoshone Diversion Dam and Tunnel)

Exhibit B
(Purchase and Sale Agreement)



Wright Water Engineers, Inc.

PETER R. FOSTER, P.E.
VICE PRESIDENT

CURRENT

Vice President and senior project engineer specializing in water supply feasibility studies, water rights, and environmental permitting for municipalities, special districts, and industry. Expert testimony for water court applications, trials, hearings, and rulemaking. Environmental permitting including Groundwater and Surface Water Discharge Permits and permits for construction of water and wastewater treatment facilities.

EDUCATION

M.S., Civil Engineering, Specializing in Water Resources Planning and Management, 1994
Colorado State University

B.A., Economics, 1988
The Colorado College

CREDENTIALS

Registered Professional Engineer—Colorado #36517, Arizona #35148, Idaho #22055, New Mexico #16745, Utah #1311956

REPRESENTATIVE PROJECTS

Southwestern Water Conservation District. Water resource engineering for the District including review of water rights, court applications and substitute water supply plans. Review of water rights allocation models and impacts to water users in the District.

La Plata County, Engineering Consulting, Colorado. Engineering consulting for Gold King Mine incident, La Plata County Road and Bridge water rights, and Durango-La Plata County Airport Master Plan. Provision of third-party independent verification of Gold King Mine spill impacts and mitigation plans. Water rights work includes assistance to La Plata County attorney's office with water rights applications. As subconsultant to Jviation, Inc., prepared analysis of water and wastewater options for airport master planning effort. Water rights engineering for water court applications and administration of the County's water rights and leased water supplies.

Oldcastle SW Group, Engineering Consulting, Colorado. Engineering consulting for water supply and environmental regulatory services for over 25 rock product facilities in Colorado and New Mexico. Includes expert reports for water rights decrees and substitute water supply plans, engineering consulting services on storm water, surface water discharge permitting and regulatory consulting. Due diligence assistance for acquisitions.

BP America Production Company, Environmental Consulting and Engineering, Colorado, New Mexico, and Wyoming. Environmental consulting and engineering services. SPCC evaluations and planning, produced water spill response, water rights and Substitute Water Supply Plans, water well permitting and reporting for Coal Bed Methane wells, rule development for nontributary water designation, regulatory assistance with 303(d) listings, and Clean Water Act compliance including Section 404. Regulatory consulting services for North America Gas facilities in Colorado, New Mexico and Wyoming.

Florida Water Conservancy District, Water Conservation and Management, Lemon Reservoir, Colorado. District engineer to prepare Water Conservation and Management Plans for the district and selected canal companies. Review construction improvements to the Canal Company's conveyance system. Project manager for the preparation of a plan to mitigate and minimize the post-fire stormwater runoff in the Lemon Reservoir Area from the Missionary Ridge Fire and canal lining projects. Submitted funding applications and secured over \$3,000,000 of funding for district and canal company projects. Environmental reports for Finding of No Significant Impact for contracting with the U.S. Bureau of Reclamation on municipal and industrial water uses and canal lining projects.

City of Ouray, Water Supply and Rights, Colorado. Project manager for the City of Ouray for long-term water supply and water rights needs. Prepared water rights inventory for the city. Developed and analyzed legal and physical water supply for the city.

Ute Mountain Ute Tribe, Water Engineering and Rights, Colorado. Water engineer for the Ute Mountain Ute Tribe. Includes water rights consulting services to enhance and protect the Tribe's water resources.

Florida Canal Diversion Structure Rehabilitation. Principal-in-charge on a multi-purpose project to retrofit and stabilize the historical, deteriorating structure owned by the Florida Consolidated Ditch Company (FCDC) to improve safety and aquatic habitat. The new stepped pool structure, made with a series of boulder sills and an engineered rock fill material, buttresses the historical diversion structure to maximize the potential for fish passage and habitat connectivity, and removes low head dam conditions. The new headgate structure with a reoriented intake and debris grates reduces sediment and the FCDC's maintenance burden at the Florida Canal headgate and ditch conveyance system.

Mancos Creek Farm Ditch. Led rehabilitation of ditch for the Ute Mountain Ute Tribe (UMUT) near Towaoc, Colorado. Project allows the Tribe to use their federally reserved water rights from Mancos Creek on the Ute Mountain Ute Farm. Designed the reconstruction of the ditch (inoperable after flooding in 2013) and a new flow measurement method between the ditch and Mancos Creek

Wines Ditch Rehabilitation Project. Project manager on conceptual design alternatives to replace diversion structure on the Dolores River, working for The Nature Conservancy. The design provides a variety of benefits to the Dolores River, including reducing the potential for non-native white sucker fish to migrate past the diversion and hybridize with native species, and improved boater passage through this section of the river.

Major Oil and Gas Operators in the Northern San Juan Basin, Water Rights Services, Colorado. Water rights engineering services for Water Rights Augmentation Plans, Water Court Application and Substitute Water Supply Plans to allow water well permitting for over 2,500 Coal Bed Methane wells for major oil and gas operators in the Northern San Juan Basin. Operators include BP America Production Co., Chevron, XTO Energy, Samson Resources, Red Willow Production Company and Conoco Phillips.

Bill Barrett Corp, Engineering Services, Utah and Colorado. Engineering consulting services for water supply for proposed drilling program. Assisted in the procurement and development of water for well drilling appraisal program.

Swift Energy, Engineering Services. Engineering consulting services for water supply procurement for appraisal well drilling program.

XTO Energy, Water Services. Assistance with Section 404 of the Clean Water Act. Project manager for water rights and Substitute Water Supply Plans, water well permitting and reporting for Coal Bed Methane wells.

Colorado Petroleum Association, Expert Testimony, Colorado. Provided expert testimony before the Colorado Oil and Gas Conservation Commission and regulatory assistance for 303(d) listings and hearings before the Water Quality Control Commission.

London Mine, Water Consulting, Park County, Colorado. Due diligence for mine water quality and treatment. Impacts to 303(d) Impaired Waters and a Total Maximum Daily Load program. Regulatory consulting on compliance issues with Colorado Department of Public Health and Environment.

Ridgway/Tri-County, Water Analysis, Colorado. Water supply feasibility study. Project manager for preparing water rights analysis of a proposed joint Town of Ridgway / Tri-County Water Conservancy District potable water supply system.

La Plata Water Conservancy District, Water Services. Served as project engineer. Developed daily water rights and water supply simulation model for the La Plata River Basin. Included modeling compact deliveries, reservoir operations and minimum streamflows for proposed reservoirs in the La Plata River Basin.

Town of Bayfield, Water Services, Colorado. Project manager assisting the Town of Bayfield with developing long-term water supply needs and negotiations with the Pine River Irrigation District to supplement the town's current and future water supply. Developed a water rights inventory and water demand forecast for the town's water system. Developed an exploratory water well drilling program. Provided oversight of the drilling and aquifer pumping test and calculated the firm yield for the town's proposed production well.

Forest Lakes Metropolitan District, Water Rights Inventory, Bayfield, Colorado. Project manager for the development of a water rights inventory for the Metropolitan District. Reviewed the district's water rights including the augmentation plan and made recommendations to enhance and protect future water supplies. Project manager for the expansion of Forest Lakes Metropolitan District's wastewater treatment facility from 60,000 GPD to 180,000 GPD. Prepared water master plan for the district's drinking water system.

Hendricks Conservation Properties Water Services, Western Slope, Colorado. Project manager for Hendricks Conservation Properties. Includes inventorying water rights and water rights strategies to improve and enhance the management of water between the eight ranches that comprise the Hendricks Conservation Properties. Consulting services for Section 404 of the Clean Water Act for diversion structures and real estate development.

Pine River Irrigation District, Jack Creek, Colorado. Project manager for a peer review of the U.S. Bureau of Reclamation design for the conveyance of water through the Jack Creek Drainage after post-fire stormwater runoff associated with the Missionary Ridge Fire.

Energy Fuels Water Assessment, Montrose County, Colorado. Water supply alternatives assessment for the proposed Piñon Ridge Mill. Provided initial water rights, water supply, wells, and pipeline alternatives analysis.

Colorado River Decision Support System. Assisted in the development of the Gunnison River Water Rights Model for the Colorado Office of the State Engineer and the Colorado Water Conservation Board. Interviewed Division engineers, District water commissioners, water attorneys and water users to develop operational background for modeling the river basin. Assisted in the development of reservoir, diversion, and water accounting software and with verification, validation, and calibration of water resources allocation model.

Virgin River Alternatives, Utah. Developed alternatives to proposed diversions and storage reservoirs by the Washington County Water Conservancy District for meeting future water demands of Washington County, Utah. Work involved: exploring conservation measures; interruptible supply contracts; agricultural water transfers; and estimating costs of alternative water supply development within the Virgin River Basin.

Carson River Water Rights Model, Water Rights Model, Nevada. Assisted Kennedy/Jenks Consultants in developing a water rights allocation model for the Carson River. Designed reservoir and canal constructs to provide accurate simulation of hydrological and administrative characteristics.

Orchard Mesa/Green Mountain Operation Model, Colorado. Developed a water rights model based on previous design of a comprehensive computer model for evaluation of U.S. Bureau of Reclamation's water transfer application in Division No. 5 Water Court. The model is designed to estimate impacts on river flows within the "15 Mile Reach" of the Colorado River given various operating scenarios of inbasin and transbasin diversions and storage projects.

Clear Creek Drop Structures, Golden, Colorado. Performed field observations of drop structures in Clear Creek. Assembled construction drawings and initial hydraulic report for use in establishing design standard of care.

Conquistador Ski Area Water Supply, Westcliffe, Colorado. Performed technical evaluations and established water requirements for proposed project near Westcliffe, Colorado. Prepared detailed tables listing diversion requirements and consumptive use depletions to stream system for use by the law firm Holme Roberts & Owen, LLP.

Florida River Flood Study, Colorado. Analyzed stream flow data using U.S. Geological Survey published data to determine statistically valid flood discharges. Flood discharges of 50-, 100- and 500-year return periods were calculated for use in floodplain delineation and permitting.

Florida River Water Rights Appraisal, Colorado. Estimated market value per acre-foot of given water rights within the Florida and Lower Animas Rivers.

City of South Boulder, Creek Instream Flow Study, Colorado. Developed simulation models and analyzed alternative sources of water for a Colorado Water Conservation Board instream flow right application. Calibrated and maintained staff gages on main Boulder Creek to check for compliance with existing instream flow rights.

South Adams County Water & Sanitation District, Colorado. Compiled and analyzed the City of Thornton's existing and proposed South Platte River exchange supplies for South Adams County Water and Sanitation District.

DJR Energy, Groundwater Model, San Juan Basin, New Mexico. Development of a groundwater model for well pumping and depletions for the Entrada Formation in the San Juan Basin New Mexico. Model was reviewed and results accepted by the New Mexico Office of the State Engineer.

Dalwhinnie Ranch, Ridgway, Colorado. Project manager on the drilling, testing and development of groundwater for the Dalwhinnie Ranch. The groundwater wells developed produce over 900-gallons per minute (gpm). Oversaw drawdown and recovery tests and submittal to the Colorado State Engineer's Office for approval for operation as a headgate wells.

Western Sky Investments, Groundwater Engineering, Western Slope, Colorado. Project manager on the development of groundwater wells for a resort development and proposed golf course. Located, oversaw drilling and testing of three groundwater production wells with water yields of over 500-gpm each. Provided groundwater engineering for obtaining a water rights decree for the wells and associated well fields.

OTHER EXPERIENCE

Community Liaison. Office of the Director, ADEQ, Mohave County, Arizona, Assisted local communities, political subdivisions, industry and Mohave County with environmental programs. Assisted local industry with compliance of state and federal environmental rules and statutes.

Environmental Engineering Specialist and Field Regulatory Compliance Engineer. Northern Regional Office, ADEQ. Inspected mining facilities and safe drinking water facilities for compliance with operational permits, Arizona Revised Statutes and Safe Drinking Water Act. Reviewed plans and studies of new and existing drinking water and wastewater facilities for a final Certificate of Approval to Operate. Inspected Air Quality permits, Aquifer Protection Permits, and National Pollution Discharge Elimination System permits associated with mines, wastewater treatment plants, and industrial facilities. Facilities included Bagdad Copper Mine, Mineral Park Mine, Energy Fuels Pine Nut, Arizona One and Canyon Mines. Certifications: Safe Drinking Water Certified Operator; California Air Resources Board 200; Method 9 Certification; MSHA Certification; OSHA 40 Hour Certification.

Hydrosphere Resource Consultants Inc., Engineering Technician, Boulder, Colorado. Assisted in the development of river basin allocation models. Assisted in reports involving river basin hydrology and water rights applications, exchanges and transfers. Developed municipal water demand model for the City of Boulder.

PROFESSIONAL AFFILIATIONS

Past Commissioner, Cumbres and Toltec Scenic Railroad Commission; appointed by Governor Bill Owens, reappointed by Governors Bill Ritter and John Hickenlooper

Member, American Society of Civil Engineers

Past Commissioner, Southern Ute Indian Tribe / State of Colorado Environmental Control Commission; appointed by Governor Bill Owens

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