

State of Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900

Application for

Allocation of Conserved Water Part 1 of 4 – Minimum Requirements Checklist

This application will be returned if Parts 1 through 4 and all required attachments are not completed and included.

For questions, please call (503) 986-0900, and ask for Allocation of Conserved Water Section

_	ncluded with this application. (N/A = Not Applicable)	JAN 28 2020
\boxtimes	Part 1 – Completed Minimum Requirements Checklist.	JAN 20 2020
\boxtimes	Part 2 – Completed Applicant Information and Signature.	OWRD
	Part 3 – Completed Water Right Information and Conservation Measures. separate Part 3 for each water right. List all water right certificates involve here: 83571 (COID) and 90177 (NUID).	
\boxtimes	Part 4 - Completed Mitigation, Proposed Use, Project Schedule, Funding, a	and Fee Calculation.
Attachments:	:	
\boxtimes	Fees – Amount enclosed: \$ (From last page of application).	
\boxtimes	Application Map. Must have sufficient detail to locate and describe the facinvolved in the conservation measures. Must show the place of use where the rate or duty are changing.	
	Land Use Information Form with approval and signature. (Not required if Water is being transferred instream.) or	100% of Conserved
	Land Use Notice - Notice of the intent to create an instream water right must affected county, city, municipal corporation, or tribal government along the reach.	•
⊠ □ N/A	Completed Evidence of Use Affidavit and Supporting Documentation.	
N/A □ N/A	Affidavit(s) of Consent.	
□ ⊠ N/A	Letter of approval from Irrigation or Water Control District. For water rigl in the name of a District, this must be provided when the transfer applican	•
⊠ □ N/A	Irrigation or Water Control District's adopted policy on allocation of cons	erved water.
⊠ □ N/A	If construction of the project has begun or been completed <u>and</u> if more that project costs have been expended before applying for allocation of conserve that you have attempted to identify and resolve the concerns of water right governmental entities or other organizations who have asked to be consult allocation of conserved water.	ved water, evidence holders in the area,
⊠ □ N/A	Evidence for Fee Waiver.	
⊠ □ N/A	Notice of Completion.	
⊠ ∏ N/A	Request for Finalization. (Entire project listed on the application must be finalization will be recognized.)	complete. No partial

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Part 2 of 4 - Applicant Information and Signature

APPLICANT/BUSINESS NAME Central Oregon Irrigatio North Unit Irrigation Dis	n District: Cra	•	PHONE NO. COID: (541) 548- 6047 NUID (541) 475- 3652	ADDITIONAL CONTACT NO.
ADDRESS COID: 1055 SW LAKE CO NUID: 2024 NW BEECH S				FAX NO. COID: (541) 548-0243 NUID: (541) 475-3652
CITY COID: REDMOND NUID: MADRAS	STATE OR	COID: 97756 NUID: 97741	E-MAIL CHORRELL@COID.O MBRITTON@NORTH	

	: MADRAS	OK		97741	- 1	TON@NORTHUNITID.COM	
\boxtimes	• •	S Chapter	553. T	he Distr	ict's OA	ORS Chapter 545 or a v R 690-018-0025 allocat <u>19.</u>	
OR							
	The applicant is the conservation measur					he water right, or portio	n thereof, proposed for
		and mailin				ddress if different than the owners or individuals/enti	
	LANDOWNER NAME				·	PHONE NO.	
	ADDRESS					4	
	СІТУ	2	STATE	ZIP		E-MAIL	
				!		!	

Representative Information – The person(s) listed below is/are authorized to represent the applicant in all matters

BEND	OR	97703	gen@deschutesriver.	org / kate@deschutesriver.org
CITY	STATE	ZIP	E-MAIL	
ADDRESS 700 NW HILL S	TREET, SUITE 1			FAX NO. 541-382-4078
REPRESENTATIVE DESCHUTES RIV AGENT)	/BUSINESS NAME ER CONSERVANCY (AS REPR	ESENTATIVE ONLY, NOT	PHONE NO. (541) 382-4077 EXT. 16 (GEN)	ADDITIONAL CONTACT NO. (541)382-4077 EXT. 18 (KATE)
_		to this application.	1	

Check this box if this project is fully or partially funded by the American Recovery and Reinvestment A	ct.
Federal stimulus dollars)	

I understand that I will be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following paper: The Bend Bulletin.

Applicants affirming signatures on following page

I (we) affirm that the information contained in this application is true and accurate.

Applicant signature

Craig Horrell, COID Manager Print Name (and Title if applicable)

Mike Britton, NUID Manager Print Name (and Title if applicable)

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In your own words tell us what conservations measures you have made or propose to make and the reason for the change(s): The F-Lateral project replaced approximately 2,210 feet of open unlined canal with High Density Polyethylene (HDPE) buried pipe. The project is located in a high seepage loss area. By piping the open canal, water seepage through the unlined floor and sides of the canal was eliminated. Piping this canal also improved management of water deliveries.



To meet State Land Use Consistency Requirements, you must list <u>all</u> local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction the conservation project and/or proposed instream reach will be located.

ENTITY NAME	ADDRESS		
DESCHUTES COUNTY PLANNING DEPARTMENT	117 NW LAFAYETTE AVE		
CITY	STATE	ZIP	
BEND	OR	97703	
ENTITY NAME	ADDRESS		
JEFFERSON COUNTY PLANNING DEPARTMENT	85 SE D STREET		
CITY	STATE	ZIP	
Madras	OR	97741	
ENTITY NAME	ADDRESS		
CONF. TRIBES OF WARM SPRINGS	P.O. Box 1299		
CITY	STATE	ZIP	
WARM SPRINGS	OR	97761	
ENTITY NAME	ADDRESS		
CROOK COUNTY PLANNING DEPARTMENT	ADDRESS 387 NE 3 RD STREET		
CITY	STATE	ZIP	
PRINEVILLE	OR	97754	
ENTITY NAME	ADDRESS		
CITY	STATE	ZIP	

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Part 3 of 4 — Water Right Information and Conservation Measures

Please use a separate Part 3 for <u>each</u> water right involved in the proposed allocation of conserved water.

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WATER RIGHT INFORMATION:

 water Right Subject to 1	ransier (check and complete ONE	of the following): OWRD		
Certificated Right	83571	Vol. 12, p. 282; Vol. 16 p.1, 390 1,390		
	Certificate Number	Permit Number or Decree Name		
Adjudicated, Un-certificated Right				
Adjudicated, On-Certificated Right	Name of Decree	Page Number		
Permit for which Proof has been				
Approved	Permit Number	Special Order Volume, Page		
Transferred Right for which Proof has				
been Filed	Previous Certificate / Transfer Number	Date Claim of Beneficial Use Submitted		

County: Deschutes, Jefferson

Describe the pre-project water delivery system. Include information on the diversion structure, pumps, and conveyance facilities (including canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use). *Provide sufficient detail for the Department to determine the system capacity*. Central Oregon Irrigation District piped a portion of a lateral off of its Pilot Butte Canal (COID's POD #11). The point of diversion for the Pilot Butte Canal is located at the North Canal Dam in Bend (RM 165) at T.17S, R.12E, Sec.29 in the SE/NE, and more specifically described as 850 FEET NORTH & 630 FEET WEST FROM E1/4 CORNER, SECTION 29 (POD #11). Water is diverted through the headgate structure and travels through the Pilot Butte Canal until it reaches the project site (the F-Lateral). The capacity of the Pilot Butte Canal is 590.145 cfs.

Table 1: Pre-Project Description

List: A) the maximum rate and annual duty (volume) of water that may be diverted as stated on the water right of record; and B) the maximum amount of water that can be diverted using the pre-project facilities ("system capacity"). If there are multiple priority dates on the water right, list the rate and duty associated with each priority date. (If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)

			PR	E-PROJEC	T DESCRIP	TION			· · · · ·	
	•		V	Colui Vater Right	mn A t of Record*			Colur System C		
			Ra	te	Duty	у	Ra	te	Dut	y
Originating Water Right #	Priority	Acres	Maximum	CFS/AC	Maximum	AF/AC	Maximum	CFS/AC	Maximum	AF/AC
83571	10/31/1900		196.673	1/80						İ
			268.304	1/60						
			365.766	1/32.5						
	12/2/1907		146.599							
Totals		17,232.817	512.365	0.031	162,615.58	9.44	590.145		}	

Note: I miner's inch = 1/40 cfs;

1 cfs = 448.8 gpm

1 cfs = 1.983471 ac-ft/day

^{*}Used OWRD's instream calculator start point for POD #11 (dated 11/14/17), this reflects prior permanent instream projects. The paper water right certificate will show higher amounts in acres, cfs and volume in acre-feet.

CONSERV	ATIO	ON N	IEASU	RES:						RE	CEIVED
Describe the	type	of co	onserva	tion me	asures,	check a	ll that a	pply:		1.0	N 2 8 2020
	n-Fa	rm ei	ficienc	y projec	t					JA	11 2 0 2020
\boxtimes [Distril	oution	n projec	t, such a	as a dito	h pipin	g or lin	ing projec	t		OWRD
	Other:	_	_							X:	
conservation fish screen a the estimate notice of the Density Pol- open canal. Place of Us	n of vand by of we project of water water e Inv	vater. ypass ater c ect. [] lene seep	If thes require conserve the F-L (HDPE) age three lin Con	e propo ements p ed was a ateral properties buried ough the nservati	sed cha bursuan determination oject re pipe. The unline ion Me	nges wi t to OR! ned. Ple eplaced The project floor asures	ill chang S 540.5 ease pro approxi ject is lo and sid	ge the poir 25. Please ovide suffinately 2. ocated in a es of the control of the	nt of dive include dicient deta 210 feet of high see anal was	rsion, you mus a description a ail for the Depo of open unlined page loss area. eliminated.	at will result in the
List only the	part c		right tha	sec	affected	d. If the	entire rig Tax Lot	Gvt Lot	Acres	just state "entire Type of Use listed On Certificate	e Certificate." Priority Date
2	S	9	Е	15	NE	NW	153.0	100		EXAMPLE	1/1/1865
Entire Certificate											
								Total			

Table 2: Conserved Water

In Column A, list the smaller of A or B from Table 1 (Pre-Project Description). In Column B, list the amount of water that will be needed for the existing, authorized use(s) after implementing the conservation measures. In Column C, subtract Column B from Column A and enter the results (e.g., A - B = C). (If the water right is only limited by rate, do not list a duty; and conversely, if the water is only limited by duty, do not list a rate.)

_				Cons	erved Wat	er Descri	otion					
		Co	lumn A			Colu	mn B	Distant.	(Column C		
	Tab	le 1 – S	maller of A or	В	Needed				Conserved Water			
	Rate	е	Duty	Duty		Rate			Rate	Duty	/	
Priority	Maximum CFS	CFS/ AC	Maximum AF	AF/AC	Maximum GFS	CFS/AC	Maximum AF	AF/ AC	Maximum CFS	Maximum AF	AF/A C	
1900	196.673 268.304				194.648 265.604				2.025 2.700			
1907	365.766 146.599				362.197 145.169				1.430			
Totals	512.365		162,615.58	9.44	507.366		161,010.38		4.999	1,605.17	9.34	

Table 3: Allocation of Conserved Water

List the portions of the conserved water that will be allocated to the state and applicant. Note: Column A plus Column B should total Column C (e.g., A + B = C).

Conserved Water Allocation									
	Column A			Column B		Column C			
St	ate's Portion		Apj	olicant's Portio	on	Conserved Water			
Maximum Duty Percentage* Rate (Volume)			Percentage	Maximum Rate	Maximum Duty (Volume)	Percentage	Maximum Rate	Maximum Duty (Volume)	
100%	4.999	1,605.17	%			100%	4.999	1,605.17	

^{*} must be at least 25%

The priority for the conserved water is requested to be:	
☐ The same as the original right, or☐ One minute junior to the original right.	RECEIVED
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WATER RIGHT INFORMATION:

	Water Right Subject to Transfer (check and complete ONE of the following): OWRD								
\square	Certificated Right	90177	Permit S-33954						
	Certificated Right	Certificate Number	Permit Number or Decree Name						
	Adjudicated, Un-certificated Right								
	Adjudicated, On-Certificated Right	Name of Decree	Page Number						
	Permit for which Proof has been								
	Approved	Permit Number	Special Order Volume, Page						
	Transferred Right for which Proof has								
	been Filed	Previous Certificate / Transfer Number	Date Claim of Beneficial Use Submitted						

County: <u>Deschutes</u>, <u>Jefferson</u>

Describe the pre-project water delivery system. Include information on the diversion structure, pumps, and conveyance facilities (including canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use). *Provide sufficient detail for the Department to determine the system capacity*. The North Unit Irrigation District Crooked River pumping plant is located near Terrebonne on the Crooked River (approximately RM 27.5) at SW ¼, NE ½, Sec. 13, T. 14 S, R. 11 E, WM, 590 feet north and 2790 feet east from the west ½ corner of Section 13.

(note: The acreage, rate and duty totals listed below in Table 1 reflect the maximum diversion allowed under NUID's Crooked River primary certificates issued under Permit S-33954: C-90177, C-88877 and C-80937). The maximum cfs for the combined certificates is not a sum of the cfs for the 3 certificates but is a total not-to-exceed or NTE (see final order for CW-81).

Table 1: Pre-Project Description

List: A) the maximum rate and annual duty (volume) of water that may be diverted as stated on the water right of record; and B) the maximum amount of water that can be diverted using the pre-project facilities ("system capacity"). If there are multiple priority dates on the water right, list the rate and duty associated with each priority date. (If the water right is only limited by rate, do not list a duty, and conversely, if the water is only limited by duty, do not list a rate.)

PRE-PROJECT DESCRIPTION										
	Column A Column B Water Right of Record System Capacity									
			Ra	te	Dut	y	Ra	te	Dut	y
Originating Water Right #	Priority	Acres	Maximum	CFS/AC	Maximum	AF/AC	Maximum	CFS/AC	Maximum	AF/AC
90177**	9/18/1968	5,052.90	117.44	0.025	20,032.25	3.96				
80937	9/18/1968	37.3	0.87	0.025	149.2	4.0				
88877	9/18/1968	92.3	2.31	0.025	369.2	4.0				
Totals		5,182.50	118.31*	0.025	20,550.65	4.0	200	.025	35,269	4.0

^{*}Max combined rate for all certificates derived from permit S-33954

Note: 1 miner 's inch = 1/40 cfs;

1 cfs = 448.8 gpm

1 cfs = 1.983471 ac-ft/day

^{**}ACW will affect 642.1 acres associated with certificate 90177 only, but will also affect the total maximum combined rate for the 3 primary water right certificates listed above.

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CONSERVATION MEASURES:

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Describe the type of conservation measures, check all that apply:	
On-Farm efficiency project	OWRD

Distribution project, such as a ditch piping or lining project

Other: NUID lands will receive conserved water resulting from the West-F piping from COID's certificate. The conserved water will displace NUID Crooked River primary rights. 100% of the displaced NUID Crooked River primary rights will be allocated permanently instream in the Crooked River.

Describe the proposed changes to the physical system, operations and application methods that will result in the conservation of water. If these proposed changes will change the point of diversion, you must meet the ODFW fish screen and bypass requirements pursuant to ORS 540.525. Please include a description and details of how the estimate of water conserved was determined. Please provide sufficient detail for the Department to provide notice of the project. The F-Lateral project piped approximately 2,210 feet of open unlined canal with High Density Polyethylene (HDPE) buried pipe. The project is located in a high seepage loss area. By piping the open canal, water seepage through the unlined floor and sides of the canal was eliminated.

Place of Use Involved in Conservation Measures

List only the part of the right that will be affected. If the entire right is being affected, just state "entire Certificate."

Tw	р	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot	Acres	Type of Use listed On Certificate	Priority Date
2	S	9	E	15	NE	NW	153.0	100		EXAMPLE	1/1/1865
Entire Certifi- cate											
								Total			

Are there other water right certificates, water use permits, ground water registrations, or uncertificated decreed rights associated with the above lands? Yes No. If YES, list the certificates, water use permits, ground water registrations, or uncertificated decreed numbers:

Is the project within the boundaries of an irrigation district or water control district? \boxtimes Yes \square No If YES, and applicant is <u>not</u> a District, you must provide a letter of approval from the District.

Table 2: Conserved Water

In Column A, list the smaller of A or B from Table 1 (Pre-Project Description). In Column B, list the amount of water that will be needed for the existing, authorized use(s) after implementing the conservation measures. In Column C, subtract Column B from Column A and enter the results (e.g., A - B = C). (If the water right is only limited by rate, do not list a duty; and conversely, if the water is only limited by duty, do not list a rate.)

				Cons	erved Wat	er Descrij	ption					
		Co	lumn A			Col	umn B		Column C			
	Table 1 – Smaller of A or B					Needed				Conserved Water		
	Rate Duty		Rate Duty		Rate	Duty						
Priority	Maximum CFS	CFS/ AC	Maximum AF	AF/AC	Maximum GFS	CFS/AC	Maximum AF	AF/AC	Maxim umCFS	Maximum AF	AF/A C	
Totals	117.44		20,032.25	3.96	102.67	Total Control	17,489.53	3.96	14.77	2,542.72		

Table 3: Allocation of Conserved Water

List the portions of the conserved water that will be allocated to the state and applicant. Note: Column A plus Column B should total Column C (e.g., A + B = C).

	Conserved Water Allocation										
	Column A Column B Column C										
St	ate's Portion					nserved Wate	/ater				
Maximum Duty Percentage* Rate (Volume)		Percentage	Maximum Rate	Maximum Duty (Volume)	Percentage	Maximum Rate	Maximum Duty (Volume)				
100%	See Attachme nt #2	-	%			100%					

^{*} must be at least 25%

The priority for the conserved water is requested to be:	RECEIVED
☑ The same as the original right, or☑ One minute junior to the original right.	JAN 2 8 2020
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Part 4 of 4 — Mitigation, Proposed Use, Project Schedule, Funding, and Fee Calculation

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MITIGATION:

Describe any expected effects from the proposed allocation of conserved water on other water rights. Describe what currently happens to the water that is proposed to be conserved. The water to be conserved is lost from the system through seepage. The water lost through seepage is generally not available to other appropriators on the Deschutes or Crooked Rivers above Lake Billy Chinook. It eventually enters the Deschutes River and its tributaries around Lake Billy Chinook. Conservation projects that apply this conserved water to a new consumptive use have the potential to reduce stream flows entering the lower Deschutes River, potentially injuring instream water rights. This project expressly intends to produce no net change in consumptive use. It exchanges Deschutes River conserved water for existing Crooked River primary irrigation water rights. Conditions on North Unit Irrigation District's remaining Crooked River water rights ensure that the resulting Crooked River instream water rights remain instream. As a whole, this project ensures that no harm to lower Deschutes River water-rights will occur.

Describe any mitigation or other measures that are planned to avoid harm to other water rights. The conserved water from this project is to be allocated to NUID's Crooked River lands as described in this application and will carry priority dates of both 1900 and 1907 and will be issued in the name of North Unit Irrigation District.

The conserved water from this project allocated to NUID lands will be diverted from the Deschutes River at the North Canal Dam, transported through the Pilot Butte Canal (COID's POD #11) and spill into the NUID canal where it will co-mingle with NUID Deschutes and Crooked River water. In addition to the POD #11 for COID's Pilot Butte Canal, an additional POD is requested at the North Ganal Dam to the NUID main canal.

N/A For new out-of-stream uses, describe the intended use and boundaries of the expected area within

which the diversion structures and places of use of the applicants' conserved water right will be

PROPOSED USE:

		located. This is land othe Irrigation; Boundaries:	er than that to	which this water	* *	_	
\boxtimes	For ins	tream uses to be created:					
		Originating Water Right (as identified in Part 3)	Priority Date	Source	Proposed Instream Period	Rate (cfs)*	Volume (ac-ft)**
		See Attachment #2					
					TOTAL	OLUME	

To calculate volume, multiply the rate by the number of days in the instream period and then multiply by 1.983471.

Note: The instream rate may not exceed the maximum rate conserved and the total volume may not exceed to maximum volume or duty conserved (Table 3, Column C)

^{*}Tip: To calculate rate (if other than the rate allowed by the right), divide the volume by the number of days in the period and then divide by 1.983471; or

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Localio	on or tn	e proposed instream water right.
		Water is requested to be protected within a reach. Location of the protected reach (identify the extent of the reach): (e.g., from the upstream POD located at RM to downstream location at the mouth at RM)
		The new Crooked River instream water right will be protected in the Crooked River from the NUID Crooked River pumps located at approximately RM 27.5 to the mouth where the Crooked River enters Lake Billy Chinook. Also see Attachment 3: Dry Year / Non-Dry Year Agreement.
	OR	
		Water is requested to be protected at a point at the following location (i.e. legal description of the point of diversion (POD))
Public	Use for	r which conserved water right should be managed under an instream right (check at least one box):
	\boxtimes	Conservation, maintenance and enhancement of aquatic and fish life, wildlife, fish and wildlife habitat, and other ecological values.
	\boxtimes	Recreation.
	\boxtimes	Pollution Abatement.
List an	ıy existi	ing instream water rights at the same point or within the same requested reach(es):
		None.
	(COII	Instream Water Right Certificates: An instream water right certificate was issued as a result of I Project (NUID Main Canal Lining, CW-75: C-88878) and as a result of the Phase II Project DI-Lateral, CW-81, C-90176). Additional permanent transfers instream have occurred on the ed River, a complete list of instream water rights is maintained by OWRD.
establi conser agency	shed ur ved wa	
	-	ed instream flow <u>intended</u> to exceed the estimated average natural flow or natural lake level m the drainage system? No; OR Ver (Provide supporting degumentation that demonstrates why additional flows are significant.
		Yes (Provide supporting documentation that demonstrates why additional flows are significant for the public use requested.); OR

	Yes, and it is pres levels are signific		nated average natural flow or natural lake				
	The requested flow does not exceed the maximum amount of any instream water right applied for under ORS 537.338 (state agency instream water right application proceed the requested public use is for the same public use; and the requested reach covers a portion or same reach as the state agency instream water right; and						
	The stream instream r	-	ority watershed during the requested				
	The stream	n is listed as water quality limited by	DEQ.				
PROJECT	SCHEDULE:						
□ N/A	For a project that he to do the following		le the dates on which the applicant intends				
	Begin Construction	Gomplete Construction and File Notice of Completion	Request that Entire Conserved Water Allocation be Finalized				
	Date:	Date:	*Date:				
have ident	nstruction of the project been expended before tify and resolve the cor	submitting this application, you must s	if more than 25 percent of the project costs ubmit evidence that you have attempted to governmental entities or other organization				
⊠ □ N/A	implemented and the		when the conservation measures were s to request the allocation be finalized.				
	Gonservation Measur Were Implemented *Date: 7/1/2015	Request that Entire Conserved Wa Allocation be Finalized **Date: 6/30/2020	RECEIVED				

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^{*} Must be within 5 years prior to the date of filing this application.

** Must be within 5 years from the date of filing this Application and Notice of Completion.

FUNDING

] N/A	Federal or state public funds that <u>are not</u> subject to repayment are to be used for the proto OAR 690-018-0040(18)(a)-(d) for further information in completing this section.	ject. <i>Refer</i>
	\boxtimes	Source of Funding: Federal: \ State: \ Non-Gov: \$ 643.	853 Pelton
	\boxtimes	Total cost for project engineering \$ 17,926 Total cost for construction \$ 850,104	
		The present value of any incremental changes in the cost of operations and maintenare directly attributable to the project that would not be incurred or realized in the atthe project is \$	
		The amount of funding and the value of any in-kind contributions for project engine construction and for any incremental changes in the costs of operations and mainten provided from federal or state public funds that are not subject to repayment is \$	ance to be
		The amount of funding and the value of any in-kind contributions for project engine construction and for any incremental change since costs of operations and maintena provided from other funds is \$224,178 (COID).	
] N/A	Enter the percentage from Table 3, Column B (Applicant's Portion of Conserved W this is more than 25%, what portion of project funds (expressed as a percentage) confederal or state public sources?%	
	N/A	The Oregon Watershed Enhancement Board (OWEB) have a contractual interest in The OWEB project number is	this project.
FEE	CALC	ULATION	RECEIVED
		Fee Schedule – ORS 536.050	
	\$1,160	2.00 - Base (1st Water Right) Add \$410.00 for each additional right	JAN 28 2020
		$\$1,160 + (1 \times \$410) = \text{Total Fee } \$1,570$	OWRD
		Fee Waiver Worksheet	
		ilify for a waiver of up to 50%, you must provide evidence to establish your application meets the ing criteria:	
		(a) Will be converted to an instream right pursuant to ORS 537.348; or	
		(b) Is necessary to complete a project funded under ORS 541.375 (OWEB); or	
		(c) Is approved by the Oregon Department of Fish and Wildlife as a project that will result in a net benefit to fish and wildlife habitat. See OAR 690-018-0040(25).	
	If the	project meets one of the above standards, use the following formula to calculate the fees:	
		(d) Enter Percentage from Table 3, Column A = $\underline{100\%}$	
		(e) Deduct 25% from percentage in (d) above = 75 %	
		(f) Enter the lesser of (e) above or 50%	
		(g) Total Fee x % waived (f) = Fee Waiver \$*	
		Example: (d) = $100\% - 25\%$ (e) = 75% (max 50% waived) = Fee x 50% = Fee Waiver	
		Total Fee S 1,570 - Fee Waiver (g) S 785 = Amount Due S 785	

2019 West F - Conserved Water Application List of Exhibits

OWRD

Attachment #1

Attachment #1 is an addendum to the conserved water application and describes the COID and NUID water rights involved in the project in detail. It outlines the process agreed upon between COID, NUID & DRC for exactly how all water rights will be impacted by describing their starting points and showing the calculations for impacts to rate, duty and acreage. It also describes in detail what the ending point (post-project water rights) will look like. Included is a description of management agreement for managing instream flows in the Crooked River post project.

Attachment #2

Attachment #2 includes five tables showing the impacts to rate, duty and acreage for (1) COID's Deschutes River water right certificate C-83571; (2) NUID's Crooked River primary water right certificates C-90177 (80937 and C-88877 not affected); (3) NUID's Crooked River supplemental water right certificates C-72281 and C-72282; (4) NUID's portion of the conserved water resulting from allocating Deschutes River conserved water to 642.1 acres currently being served by Crooked River water rights; and (5) State portion of the conserved water (instream) resulting from allocating NUID primary water rights instream (management agreement not included in this table).

Attachment #3

Management agreement for managing minimum instream flows (post-project) in the Crooked River. Applicant requests that OWRD impose conditions to limit the Applicant's exercise of its Crooked River water rights under Certificates 72281, 72282, 90177, 90176, and 88877. These conditions will limit the Applicant's post project exercise of these rights to ensure protection of the minimum stream flows in the Crooked River downstream of the Certificates' POD. Also under Attachment 3 is the OWRD Interoffice Memo regarding North Unit Irrigation District Water Accounting.

Attachment #4

NUID Crooked River primary "off" lands and Deschutes conserved water "on" lands (spreadsheets and off and on maps).

Exhibit A

Agency support letter(s). Agencies contacted: ODEQ, OSPD and ODFW. Some agencies may use the review process (of the submitted application) to express support.

Exhibit B

Evidence of Use Affidavit for the conserved water diverted through the North Canal/Pilot Butte Canal (POD#11 - COID)

Exhibit C

OWRD land use forms (Deschutes & Jefferson Counties) and copies of letters to local governments.

Exhibit D

Irrigation Districts' Policy for Conserved Water (COID & NUID)

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Exhibit E

Project map for the piped portion of the West F Lateral

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Exhibit F

Identification and resolution of water right conflicts. As of the date this application is being submitted to OWRD, construction of the project has been completed and more than 25 percent of project costs have been expended. Thus, the Applicant provides the following evidence that the Applicant has attempted to identify and resolve the concerns of water right holders in the area, governmental entities, and other organizations that have asked to be consulted regarding the allocation of conserved water.

The Applicants (NUID and COID), and/or its authorized agent, the Deschutes River Conservancy (DRC), have met with or communicated with the following:

- 1) Water users: NUID sent a letter (copy attached Exhibit F) to all of its patrons outlining the Water Supply Initiative and subsequent projects on November 18, 2011, and further held a patron meeting on December 8, 2011, at the Jefferson County Fairgrounds in Madras to discuss the project. NUID also sent a letter (copy attached) by registered mail to all 182 NUID landowners with appurtenant primary Crooked River water rights, which described the process by which primary Crooked River water rights would be replaced with Deschutes River conserved water. The letters mention the intent for multiple phases until reliance on Crooked River primary rights is eliminated. To date, NUID has received the support of its patrons, as evidenced by the fact that no patron has stepped forward to "opt-out" of the project as otherwise allowed by NUID's Conserved Water Policy, and based on the positive response to NUID's lottery for determining the order in which landowners with appurtenant Crooked River primary water rights will have these rights replaced with new Deschutes River primary water rights made available as a result of the project.
- 2) Governmental entities: The District and the DRC have had multiple meetings (in 2015) with the Oregon Water Resources Department, the Oregon Department of Fish and Wildlife (ODFW), the Oregon Department of Environmental Quality (ODEQ), and the U.S. Bureau of Reclamation to discuss the project. DRC has also checked back in with these entities more recently. Letter(s) in support of the project from state agencies are attached to this Application in Exhibit A. A support letter was received from ODFW for Phase I of the NUID Water Supply Initiative, however, ODFW now uses the state agency review process to indicate their support.
- 3) Other organizations: The District and/or the DRC have had various meetings with the Confederated Tribes of the Warm Springs (CTWS), Portland General Electric, WaterWatch of Oregon, and others. The CTWS actively participated in studies to determine the water savings in Phase I the lining the NUID main canal, in support of the initial project. PGE supported this project with use of the Pelton Fund to help finance this project (West F, Phase IV).

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Attachment #1

Attachment #1 is an addendum to the conserved water application and describes the COID and NUID water rights involved in the project in detail.

Allocation of Conserved Water West-F Lateral Piping

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ATTACHMENT 1

Phase I. On 5/29/2012 North Unit Irrigation District submitted an application for the allocation of conserved water for Phase 1 of the North Unit Water Supply Program. The application was assigned the number CW-75 and involved allocating water conserved from the lining of NUID's Main Canal onto lands which had been previously irrigated using Crooked River water. The displaced Crooked River water rights were permanently allocated instream upon each incremental final order for CW-75 on 9/24/2013.

Phase II. On 10/22/2013, NUID and COID submitted an application for the allocation of conserved water for Phase 2 of the North Unit Water Supply Program. The application was assigned the number CW-81 and involved the piping of a section of COID's I-Lateral and allocating the conserved water in the same manner as Phase 1. CW-81 was issued a Final Order on 4/10/2015.

Phase III. On hold.

Phase IV. This application is for the West-F Lateral Piping is intended to follow the same approaches as CW-75 and CW-81 for calculating changes in rate and duty for NUID's water rights. The changes described in the application are intended to be additive to the changes described in CW-75 and CW-81.

- 6. A) What amount of water will be needed for existing authorized use after conservation measures?
- 1. Deschutes River COID Certificate 83571. This water right has changed over time due to transfers, prior conserved water and other modifications which have affected the rate and volume associated with the water right. This application describes the water right from the Pilot Butte Canal (POD #11) as having a maximum rate of 512.365 cfs and a maximum duty of 162,615.58 acre-feet annually, with a 10/31/1900 and 12/2/1907 priority date for the balance allowed by the decree (OWRD instream calculator "start point" for POD #11, dated 11/14/17). The maximum rate for POD #11 varies by season as follows:

Pre-Project COID Water Right: C-83571 (POD #11)

Season	Days	Priority	%	cfs/acre	Rate (cfs)
Season 1	61	1900		1/80	196.673
Season 2	30	1900		1/60	268.304
Season 3	123	1900	71.39%	0.031	365.766
Season 3	123	1907	28.61%	0.031	146.599

^{*}Season 3 total = 512.365 cfs (POD #11 only)

This project conserves <u>1,605.17 acre-feet</u> annually. The Applicants used the OWRD rate calculator for COID to determine how much of the <u>1,605.17</u> acre-feet will be removed from C-83751 in each of COID's three seasons. The table below describes the rate and duty, by season, which will be removed from C-83571 upon final order for this allocation of conserved water. The Applicants used the OWRD rate calculator for COID to determine the correct breakdown between the 1900 and 1907 priority dates in Season 3.

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Conserved Water

Season **Priority** Rate (cfs) Days Duty (af) Season 1* 56 1900 2.025 Season 2 30 1900 2.700 Season 3 123 1900 3.569 123 1907 Season 3 1.430

Total 1,605.17

Post-Project Duty

The Applicants request that the maximum duty for Certificate 83571 (POD #11 only) be reduced by 1,605.17 acre-feet, for a new maximum duty of **161,010.41** acre-feet.

Post-Project Rate

The Applicants request that the maximum seasonal rates for POD #11 be reduced by the amount of water conserved through the project, yielding new, post-project seasonal rates as in described the table below:

Post-Project COID Water Right: C-83571 (POD #11)

Season	Days	Priority	%	Rate (cfs)
Season 1	61	1900		194.65
Season 2	30	1900		265.604
Season 3	123	1900	71.39%	362.197
Season 3	123	1907	28.61%	145.169

^{*}Season 3 total = 507.366 cfs (POD #11 only)

Crooked River – NUID Certificates 90177, 88877 and 80937. The tables below summarize the reduction in acreage and duty for Certificate 90177 (formerly 88876/72283) and the combined maximum rate for Certificates 90177, 88877 (formerly 72284) and 80937 (formerly part of 72283).

Simple history of NUID Crooked River Primary Certificates:

Permit S-33954, 9/18/1968 priority C-51233 (Original Certificate) C-72283 (1996)

> C-72283 – several iterations C-88876 (2013 CW-75)

C-90177 (2015 CW-81)

C-80937 (2004 CW-24)

C-72284 (1996)

C-88877 (2013 CW-75)

Summary.

C-51233 now exists as 3 separate superseding certificates:

90177, 80937 & 88877

Certificates throughout the remainder of this document will be identified by their current/present certificate number.

^{*}Number of days in season 1 is reduced to prevent enlargement consistent with prior agreed-upon practice by OWRD and COID

Acres

The Applicants intend to allocate 1,605.17 acre-feet of conserved Deschutes River water under Certificate 83571 to approximately 642.1 acres within NUID currently irrigated under Certificate 90177 at a maximum duty of 2.5 acre-feet per acre. As outlined below, this project under the NUID Water Supply Initiative will reduce acreage from Certificate 90177 only.

Figure 1

Pre CW-75 acres under Certificate 90177 (formerly 88876 and 72283): 8,530.3 ac

Reduction in acres under Certificate 90177 by CW-75: 8,530.3 ac - 2957.4 ac = 5,572.9 ac

Reduction in acres under Certificate 90177 from CW-81: 1,300 af / 2.5 af per ac = 520 ac

Reduction in acres under Certificate 90177 from this project: 1,605.17 af / 2.5 af per ac = 642.1

Post-Project acres remaining under Certificate 90177: 5,572.9 ac [post CW-75] - 520 ac [post CW-81] - 642.1 ac [CW West F] = 4,410.80 ac post-project

Summary of Reduction in Acres from Projects Under the NUID Water Supply Initiative (primary rights perfected under permit S-33954)

Project	C-90177	C-88877	C-80937	Totals
Pre CW-75	8530.3 ac	286.9 ac	37.3 ac	8854.5 ac
CW-75	-2957.4 ac	-194.6 ac	-0 ac	-3152.0 ac
CW-81	-520.0 ac	0 ac	-0 ac	-520.0 ac
West F CW	-642.1 ac	0 ac	-0 ac	-642.1 ac
Post Project	4,410.8 ac	92,3 ac	37.3 ac	4,540.4 ac

Duty

Each acre watered under Certificate 90177 receives a maximum duty of 3.96 acre-feet per acre over 5,052.9 acres. The maximum duty for Certificate 90177 is 20,032.25 acre-feet (post Final order for CW-81). The Applicants request a reduction in the total duty of 2,542.72 acre-feet for a new maximum duty of 17,489.53 acre-feet.

Figure 2

Pre CW-75 maximum duty under Certificate 90177 (formerly 88876 and 72283): 33,822.8 af

Reduction in duty under Certificate 90177 from Final Order for CW-75: 11,726.15 af

Reduction in duty under Certificate 90177 from CW-81: 2,064.4 af

Reduction in duty under Certificate 90177 from this project: 2,542.72 af

Post-project maximum duty under Certificate 90177:

33,822.8 af [original] - 11,726.15 af [CW-75 Final Order reduction] - 2,064.4 af [CW-81 reduction] - 2,542.72 af [this project] = 17,489.53 af post-project

Summary of Reduction in Duty from Projects Under the NUID Water Supply Initiative

Project	C-90177	C-88877	C-80937	Total
Pre CW75	33,822.8 af	1,147.6 af	149.20 af	35,119.6 af
CW75, Final Order	-11,726.15 af	778.4 af	0 af	-12,504.55 af
Phase II	-2,064.4 af	0 af	0 af	-2,064.4 af
This Project	-2,542.72 af	0 af	0 af	-2,542.72 af
Post Project	17,489.53 af	369.2 af	149.20 af	18,007.93 af

Rate

Certificates 90177 (formerly 88876), 88877 and 80937 each carry an individual rate limitation. They also share a combined total maximum rate of 199.12 cfs (pre CW-75). The total maximum rate for Certificate 90177 will be reduced proportionally to the reduction in acreage. Certificate 88877 and 80937 will not be individually affected by this allocation of conserved water. However, the combined maximum rate shared by Certificates 90177, 88877 and 80937 will be reduced proportionally to the reduction in acreage.

Figure 3

Pre CW-75 maximum rate under Certificate 90177 (formerly 88876 and 72283): 198.25 cfs over 8,530.3 acres

Pre CW-75 per acre rate under Certificate 90177: 198.25 cfs / 8,530.3 acres = 0.023 cfs/acre

Reduction in rate under Certificate 90177 from Final Order for CW-75: 68.73 cfs

Reduction in rate under Certificate 90177 from CW-81 (Final Order, 2015) 12.08 cfs

Reduction in rate under Certificate 90177 from this project: 0.023 cfs/ac * 642.1 = 14.77 cfs

Post project rate reduction under Certificate 90177:

198.25 cfs [Pre CW-75] -68.73 cfs [CW 75 Final Order reduction] -12.08 cfs [CW-81 reduction] -14.77 cfs (this project) = 102.67 cfs post-project

Summary of Reduction in Rates Under Certificates 90177 (88876/72283), 88877 (72284) and 80937 from Projects Under the NUID Water Supply Initiative

Project	C-90177 (88876)	C-88877	C-80937
Pre CW75	198.25 cfs	7.17 cfs	0.87 cfs
CW-75, Final Order	-68.73 cfs	-4.86 cfs	0 cfs
CW-81	-12.08 cfs	0 cfs	0 cfs
This project	-14.77 cfs	0 cfs	O cfs
Post Project	102.67 cfs	2.31 cfs	0.87 cfs

Note: Per acre rate for C-88877 = 7.17 cfs / 286.9 ac = 0.0250 cfs/ac

Combined Maximum Rate

Certificates perfected as a result of permit S-33954 have individual rate limitations, but also have a combined total "not-to-exceed" rate limitation. The NTE rate limitation is not equal to the sum of the individual certificates.

Figure 4

Post CW-75 maximum combined rate under Certificates 90177 (formerly 88876 and 72283), 88877 and 80937:

130.39 cfs over 5,702.5 acres

Post CW-75 per acre rate under Certificates 90177 (88876), 88877 and 80937: 130.39 cfs / 5,702.5 acres = 0.023 cfs/acre

Post CW-81 per acre rate under Certificates 90177 (88876), 88877 and 80937:

130.39 cfs -12.08 cfs = 118.31 cfs 5,702.5 acres - 520 acres = 5,182.5 acres 118.31 cfs / 5182.5 acres = 0.023 cfs/acre

Reduction in combined rate under Certificates 90177, 88877 and 80937 from this project: 0.023 cfs/ac * 642.1 acres = 14.77

Post project combined rate reduction under Certificate 90177, 88877 and 80937:

130.39 cfs [Post CW-75] - 12.08 cfs [CW-81] - 14.77 cfs [this project] = 130.39 cfs [Post CW-75] - 12.08 cfs [CW-81] - 14.77 cfs [this project] = 130.39 cfs [Post CW-75] - 12.08 cfs [CW-81] - 14.77 cfs [this project] = 130.39 cfs [Post CW-75] - 12.08 cfs [CW-81] - 14.77 cfs [this project] = 130.39 cfs [Post CW-75] - 12.08 cfs [CW-81] - 14.77 cfs [this project] = 130.39 cfs [Post CW-75] - 12.08 cfs [CW-81] - 14.77 cfs [this project] = 130.39 cfs [Post CW-75] - 12.08 cfs [Post CW-75] - 12.08 cfs [Post CW-81] - 14.77 cfs [Tost CW-75] - 12.08 cfs [Post CW-81] - 14.77 cfs [Tost CW-75] - 12.08 cfs [Post CW-81] - 14.77 cfs [Tost CW-75] - 12.08 cfs [Post CW-75] - 12.08 cfs

103.54 cfs post-project

Summary of Reduction in Combined Maximum Rate Under Certificates 90177 (88876), 88877 and 80937 from Projects Under the NUID Water Supply Initiative

Project	Combined Maximum Rate
Post-CW 75	130.39 cfs
Phase II, CW 81	-12.08 cfs
This Project	-14.77 cfs
Post Project	103.54 cfs

The combined maximum rate under Certificates 90177 (formerly 88876), 88877 and 80937 following this project will be less than the sum of the individual rates of Certificates 90177, 88877 and 80937. NUID expects that this will change following future phases of the NUID Water Supply Initiative.

3. Crooked River - Certificates 72281 and 72282. The maximum rates, duties, and POUs for Certificates 72281 and 72282 which provide <u>supplemental</u> Crooked River water to lands served by Certificates 90177, 88877 and 80937 will remain unchanged; however pumping under these rights will be limited as described in the Additional Conditions in Section 6.A.4 below. Table 3 of Attachment 2 summarizes these water rights.

4. Additional Conditions Applicable to Crooked River Certificates 72281, 72282, 90177, 88877, OWRD and 80937. NUID will ensure its future pumping under Certificates 72281, 72282, 90177, 88877, and 80937 is protective of (1) The up to 7,880 af of conserved water added to the Crooked River through CW-75, (2) the 1,300 af of conserved water added to the Crooked River through CW-81, (3) the 1,605 af of conserved water added to the Crooked River through this project, and (4) the historical stream flow that is expected to be present based on records of historical flows downstream of NUID's pump station.

To accomplish this, NUID agrees to limit its pumping to protect these stream flows pursuant to certain established flow rate minimums. The actual pumping limitations put in place each year will reflect a declaration by OWRD of whether there are "Non-Dry Year" or "Dry Year" conditions present at the start of each irrigation season using the evaluation protocol described in **Attachment 3**.

In sum, NUID is requesting that Certificates 72281, 72282, 90177, 88877 and 80937 be conditioned to reflect minimum stream flow rate requirements in the Crooked River that are established in **Attachment 3**, and which will be annually determined by whether OWRD declares that year is a Non-Dry Year or Dry year, in order to protect the minimum stream flow rates identified in **Attachment 3**.

The minimum stream flow rates identified in **Attachment 3** are intended to ensure that NUID's future pumping protects the conserved water added to the Crooked River through CW-75, CW-81, and this project in addition to the stream flow that would have been present if these conservation projects were not in place. NUID has identified the stream flow that would have been present if these conservation projects were not in place based on records of historical flows downstream of NUID's pump station.

The implementation of the Crooked River Collaborative Water Security and Jobs Act (the Act) will change the amount of water flowing in the Crooked River. Following the implementation of the Act, historical stream flows will no longer represent the stream flow that would have been present if these conservation projects were not in place. No more than one year following the Final Order of this project, NUID will revise the minimum stream flow rates identified in **Attachment 3** to ensure that that the district's future pumping protects the conserved water added to the Crooked River through CW-75, CW-81, and this project in addition to the stream flow that would have been present if these conservation projects were not in place. NUID will work with Oregon Water Resources Department and Deschutes River Conservancy to review and adaptively manage these rates intra- and inter-annually to meet this objective following Final Order.

The Act directs the Bureau of Reclamation to participate in dry year planning. If the Bureau of Reclamation identifies a dry year metric for Crooked River water supplies through this plan, this metric will replace the metric identified in Attachment 3 for the declaration of "Non-Dry" or "Non-Dry Year" conditions.

6. C) What portions of the conserved water will be allocated to the state and Applicant?

1. Applicant Portion: The Applicants request that the 1,605.17 acre-feet of the conserved Deschutes River water generated by the project under Certificate 83571 be allocated to irrigate 642.1 acres of the acreage that is currently being irrigated with Crooked River primary water under Certificate 90177. Based on the order in which Crooked River primary acres will be replaced with Deschutes River conserved water as established by NUID, NUID anticipates that all of the conserved Deschutes River water made available under this Phase II application will be allocated to lands under Certificate 90177, with no lands under Certificate 88877 or 80937 receiving conserved water under this application. The

allocation of the conserved water would be at the maximum duty of <u>2.5 acre-feet per acre</u> instead of the current maximum duty of 4.0 acre feet per acre now authorized for these lands under Certificate 90177. The maximum rate for these lands will vary by season with a maximum rate in Season 3 of <u>4.999 cfs</u>. **Table 4** of **Attachment 2** summarizes the proposed allocation of the conserved water.

NUID has identified the particular lands that will receive the conserved water with this application.

2. State Portion: Approximately <u>642.1 acres</u> of Crooked River primary water rights from Certificate 90177 will be allocated to the state for instream use in the Crooked River after the completion of the project.

The place of use of the instream water will be from the point of diversion identified in Certificate 90177 (88876) to the mouth of the Crooked River. The new instream water right will have a maximum duty of 2542.72 acre-feet (3.96 acre-feet per acre for 642.1 acres), and a maximum rate of 5.99 cfs (2,542.72 acre-feet across a 214 day irrigation season) that will be protected instream from April 1 through October 31, and will retain the original priority date of Certificate 90177. These details are also summarized in Table 5 of Attachment 2.

Figure 5

State Portion - Maximum <u>Duty</u> Allocated Instream Crooked River: 642.1 acres x 3.96 acre-feet per acre = 2,542.72 acre-feet instream

State Portion - Maximum Rate Allocated Instream Crooked River:

Days in irrigation season from April 1 through October 31 = 214 days
1 cfs = 1.98347 af per day
2,542.72 acre-feet/214 days/1.98347 af per cfs per day = 5.99 cfs instream

3. Adjustment to Applicant's Crooked River Pumping Demand Accounting pursuant to OWRD's 1996 memorandum: NUID requests that OWRD reduce the proportion of water that it requires NUID to pump from the Crooked River coincident with the reduction of acreage under Certificates 90177, 88877 and 80937 and the formula adopted in the July 10, 1996 memorandum from B. Main to M. Pagel (see Attachment 4).

As described in Attachment 4, OWRD currently requires NUID to pump sufficient water from the Crooked River to supply the demand created by acreages watered under Certificates 90177, 88877 and 80937. Phase 1 of the North Unit Initiative (CW-75), which involves a conserved water application from the lining of NUID Main Canal has been evaluated by OWRD and adjusted this pumping requirement in two phases as shown below. Pre CW-75, OWRD required NUID to meet 16.775% of its total irrigation demand by pumping from the Crooked River based on the following calculations of NUID's overall irrigation demand from both the Crooked and Deschutes Rivers:

Figure 6

Pre CW-75 Crooked River Pumping Requirements

Ratio of Crooked River Lands to Total Lands Watered by NUID:
9,000 Crooked River acres / (50,000 Deschutes River acres + 9,000 Crooked River acres) =
0.1525

Average Loss from Crooked River Pumps to Delivery Point: 10%

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Calculation of Crooked River Irrigation Demand:

(0.1525 * Total Demand) + 0.1*(0.1525 * Total Demand) = 0.16775 * Total Demand, or 16.775 % of Total Demand

Note: The total acreage for NUID's Crooked River lands and Deschutes River lands identified in Figure 6 (per OWRD's 1996 Memorandum) do not exactly match the acreages identified in Figure 7. The calculation for NUID's Crooked River pumping requirements in Figure 7 reflect the actual acreages in NUID currently under irrigation from both the Crooked River and Deschutes River.

After the issuance of the Final Order for this project, after appeals if any, NUID requests that OWRD require NUID to meet <u>8.48%</u> of its total demand by pumping from the Crooked River. This figure is based on the following calculations:

Figure 7

Post Final Order Crooked River Pumping Requirements

Crooked River Lands (Certificates: 90177, 88877 and 80937)

Pre CW-75 Crooked River Lands: 8,854.50 ac

Reduction in Crooked River lands from Final Order for CW 75: 3,152 ac

Reduction in Crooked River lands from CW-81: 520 ac

Reduction in Crooked River lands from this project: 642.1 ac

Post Final Order Crooked River Lands:

8,854.50 ac [Pre CW-75] - 3,152 ac [CW-75 Final Order reduction] - 520 ac [CW-81 reduction] - 642.1 ac (this project) = 4,540.40 ac

Deschutes River Lands

Pre CW-75 Deschutes River lands: 50,049.90 ac

Increase in Deschutes River lands from Final Order for CW 75: 3,152 ac

Increase in Deschutes River lands from CW-81: 520 ac

Increase in Deschutes River lands from this project: 642.1 ac

Post Final Order Deschutes River lands: 50,049.9 [Pre CW-75] + 3,152 [CW-75 Final Order increase] + 520 ac [CW-81 increase] + 642.1 ac (this project) = 54,364 ac

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Post - Final Order Pumping Requirements

Ratio of Crooked River Lands to Total Lands:
4,540.40 Crooked River acres / (54,364 Deschutes River acres +
4,540.40 Crooked River acres) = 0.0771

Average Loss from Crooked River Pumps to Delivery Point: 10%

Post- Final Order Crooked River Demand Ratio
0.0771 (ratio) * Total Demand + 0.10*(0.0771 * Total Demand) =
0.0848 * Total Demand, or 8.48% of Total Demand

7. A) Describe boundaries of proposed use of conserved water.

As described in Section 6 above, the Applicants intend to allocate approximately 1,605.17 acre-feet of Deschutes River conserved water to approximately 642.1 acres of land that currently receive Crooked River primary water under Certificate 90177, thereby replacing the use of the Crooked River water. The Applicants will divert this 1,605.17 acre-feet of Deschutes River water from any or all of the points of diversion identified under Certificates 72279, 72280, and 83571 and deliver it to the new POUs through its existing delivery system.

NUID has identified the particular lands to receive the Deschutes River conserved water instead of Crooked River water with this application.

7. B) <u>Describe location of instream use.</u>

The new Crooked River instream water will be protected in the Crooked River from the NUID Crooked River pumps located at approximately RM 27.5 to the mouth where the Crooked River enters Lake Billy Chinook on the Deschutes River.

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Attachment #2

Attachment #2 includes five tables showing the impacts to rate, duty and acreage for COID and NUID and the State Instream allocation from the conserved water project.

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Certificate	Priority Date	Source	Season	Maximum Rate (cfs)	Maximum Rate per Acre (cfs)	Maximum Duty (AF)	Per Acre Dut (AF/acre
		Deschutes River	1	239.006	1/80		
h		Deschutes River	2	318.681	1/60		9.91
83571	10/31/1900	Deschutes River	3	421.298			5.51
ľ	12/2/1907	Deschutes River	3	168.847	1/32.4		
mbined Total		Acres:	19,167.677	590.145		189,480.68	

Table 17 COID Des	chutes River (s	rimary) water rights (rom Certificate	83571, POD #11	conserved thro	ugh the project			start point from OV	VRD-COID calculate	r dated 11/14/1
				Before Project			New Projec	ject (West F) Post Project			
				Maximum Rate	Maximum Duty	Per Acre Duty	Rate Conserved (Duty Conserved	Maximum Rate	Maximum Duty	Per Acre Duty
Certificate	Priority Date	Source	Season	(cfs)	(AF)	(AF/acre)	cfs}	(AF)	(cfs)	(AF)	(AF/acre)
	 _	Deschutes River	1	196.673			2.025		194.648	•	
	10/31/1900	Deschutes River	2	268.304		9,44	2.700		265.604		9.34
83571		Deschutes River	3	365,766		3.44	3.569		362.197	-	2.0
		Deschutes River	3	146.599			1,430		145.169		
Combined Total		Acres:	17,232.817	512.365	162,615.58		4.999	1605.17	507.366	161,010.41	

Crooked Riv	er certificates perfected under permit 5-33954
51233 supers	eded by:
	72283 superseded by 80937 and 90177 (88876)
	80937 (in 2004)
	88876 (in 2013)
	90177 superseded 88876 (in 2015)
	72284 superseded by 88877 (in 2013)
3 current ceri	ificates as of 2019: 80937, 90177 and 88877

3 current certificate	\$ 9\$ 01 ZU19; BU		f these certificates	-		
		iperseding portions o				
		1		10 manage 2000	ad hardha agailean	
able 2. Crocked	River (primary) water rights from	Before CW-75	3 8. / 2284 Birect	ed by the project	
COLUMN TO STATE			Bejore CW-73	Maximum Rate	Maximum Duty	Per Acre Du
Certificate	Priority Date	Source	Acre Equivalents	(cfs)	(AF)	(AF/acr
90177 (72283)	9/18/1968	Crooked River	В,530.30	198.25	33,822.80	3.9
88877 (72284)		Crooked River	286.90	7.17	1,147.60	4.0
80937		Crooked River	37.30	0.87	149.20 34,970.4	4.0
Combined total not Combined total inclu		<u></u>	8,817.20 8,854.50	199.12 199.12	35,119.6	
		ts perfected under 5-33				int
Commerce and contact			CW-75 Reduction	Rate Reduction	Duty Reduction	A MANUAL PROPERTY.
Certificate (superseded)	Priority Date	Source	Acre Reduction (acres)	(cfs)	(AF)	
90177 (72283)		Crooked River	2,957.40	68.73	11,726.15	Not Applicable
88877 (72284)		Crooked River	194.60	4.86	778.40	1101116
80937	9/18/1968	Crooked River		-	-	
00337	3, 10, 1300		ooked River Right	s (post CW-75)		
Certificate	· · ·			Maximum Rate	Maximum Duty	Per Acre Du
(superseded)	Priority Date	Source	Acre Equivalents	(cfs)	(AF)	(AF/acı
90177 (88876)	9/18/1968	Croaked River	5,572.90	129.52	22,096.65	3.5
88877		Crooked River	92.30	2.31	369.20	4.0
80937		Crooked River	37.30	0.87	149.20	4.0
Combined total not			5,665.20	130.39	22,465.85	
Combined total incli	uding 80937		5,702.50	130.39	22,615.05	
	VTE 130.39 cfs f	or all water rights pe 9/24/2013. See page	rfected under S-3395		8877 and 80937)	
CW-75 completion a	VTE 130.39 cfs f		rfected under S-3399 15 of final order CW- CW-81 Reduction	75 for NTE cfs.		
CW-75 completion a Certificate	VIE 130.39 cfs f and finalization S	0/24/2013. See page	rfected under 5-3395 15 of final order CW	75 for NTE cfs.	Duty Reduction	
CW-75 completion a	NTE 130.39 cfs f and finalization S Priority Date	0/24/2013. See page	rfected under S-3399 15 of final order CW- CW-81 Reduction Acre Reduction	75 for NTE cfs.	Duty Reduction	Not Applicable
CW-75 completion a Certificate (superseded)	Priority Date 9/18/1968	0/24/2013. See page Source	rfected under S-339 15 of final order CW CW-81 Reduction Acre Reduction (acres)	75 for NTE cfs. 8 Rate Reduction (cfs)	Duty Reduction (AF)	Not Applicable
CW-75 completion a Certificate (superseded) 90177 (88876)	Priority Date 9/18/1968	Source Crooked River Crooked River Crooked River	rjected under S-339! 15 of final order CW CW-81 Reduction Acre Reduction (acres) 520.00	75 for NTE cfs. Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Not Applicable
Certificate (superseded) 90177 (88876) 88877 80937	Priority Date 9/18/1968	Source Crooked River Crooked River Crooked River	rjected under S-339! 15 of final order CW CW-81 Reduction Acre Reduction (acres) 520.00	75 for NTE cfs. Rate Reduction (cfs) 12.08 - s (post CW-81)	Duty Reduction (AF) 2,064.40	
Certificate (superseded) 90177 (88876) 88877 80937	Priority Date 9/18/1968 9/18/1968	Source Crooked River Crooked River Crooked River Remaining Co	rjected under S-339! 15 of final order CW- 15 of final order CW- 16 Reduction Acre Reduction (acres) 520.00	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40 Maximum Duty	Per Acre Du
Certificate (superseded) 88877 80937 Certificate (superseded)	Priority Date 9/18/1968 9/18/1968 Priority Date	Source Crooked River Crooked River Crooked River Remaining Co	rected under S-339! 15 of final order CW- 21 Reduction Acre Reduction (acres) 520.00 rooked River Right Acre Equivalents	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre Du (AF/acr
Certificate (superseded) 88877 80937 Certificate (superseded) 90177 (88876) 877 8093	Priority Date 9/18/1968 Priority Date 9/18/1968 9/18/1968 9/18/1968	Source Crooked River Crooked River Crooked River Remaining Co	rected under S-339! 15 of final order CW- 25 of final order CW- 25 Reduction Acre Reduction (acres) 520.00	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40 Maximum Duty (AF) 20,032.25	Per Acre Di (AF/aci 3.
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 [88876] 88877 80937	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River Crooked River Crooked River Remaining Co	CW-81 Reduction Acre Reduction (acres) 520.00 - cooked River Right Acre Equivalents 5,052.90 92.30	75 for NTE cfs. Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40 Maximum Duty (AF) 20,032.25 369.20	Per Acre Di {AF/aci 3.
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River Crooked River Remaining Co Source Crooked River Crooked River Crooked River Crooked River	rected under S-339! 15 of final order CW- 25 of final order CW- 25 Reduction Acre Reduction (acres) 520.00	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40 Maximum Duty (AF) 20,032.25	Per Acre Di {AF/aci 3.
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River Crooked River Remaining Co Source Crooked River Crooked River Crooked River Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 - cooked River Right Acre Equivalents 5,052.90 92.30 37.30	75 for NTE cfs. Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40 Maximum Duty (AF) 20,032.25 369.20 149.20	Per Acre Di {AF/aci 3.
Certificate (superseded) 90177 (88876) 88937 Certificate (superseded) 90177 (88876) 88937 R8937 R8937 Combined total not Combined total inclications of the combined total inclinations of the	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 10cluding 80937	Source Crooked River Crooked River Crooked River Remaining Co Source Crooked River Crooked River Crooked River Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50	75 for NTE cfs. Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre DL {AF/acr 3. 4.
Certificate (superseded) 90177 (88876) 88937 Certificate (superseded) 90177 (88876) 88937 R8937 R8937 Combined total not Combined total inclications of the combined total inclinations of the	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50	75 for NTE cfs. Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre Di {AF/ac 3. 4.
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Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not Combined total inclicombined total cfs in CW-81 completion a	Priority Date 9/18/1968 Priority Date 9/18/1968 Priority Date 9/18/1968 Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 Priority Date 9/18/1968 9/18/1968 Priority Date 9/18/1968 Priority Date 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50 der permit S-33954 Acre Reduction (acres) 642.1	75 for NTE cfs. Rate Reduction (cfs) 12.08 12.08 12.08 Assimum Rate (cfs) 117.44 2.31 0.87 118.31 118.31 Deer FO for CW-81 Succtions Rate Reduction (cfs) 14.77	Duty Reduction (AF) 2,064.40	Per Acre Di {AF/ac 3. 4. 4.
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not Combined total inclicombined total cfs of CW-81 completion a Certificate 90177 88877 88877	Priority Date 9/18/1968 Priority Date 9/18/1968 Priority Date 9/18/1968 Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 Priority Date 9/18/1968 9/18/1968 Priority Date 9/18/1968 Priority Date 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50 der permit S-33954 Acre Reduction (acres) 642.1	Rate Reduction (cfs) 12.08 12.08 12.08 12.08 13.31 13.31 138.31 14.37 14.77 14.77 14.77	Duty Reduction (AF) 2,064.40	Per Acre Di {AF/ac 3. 4. 4. d 80937)
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 90177 (88876) 88877 80937 Combined total not Combined total included total included total combined total combin	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/19/1968 9/19/1968 9/19/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River Crooked River Crooked River Remaining Co Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 cooked River Right Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50 der permit S-33954 Acre Reduction (acres) 642.1 ed River Rights (p	Rate Reduction (cfs) 12.08 - s (post CW-81) Maximum Rate (cfs) 117.44 2.31 0.87 118.31 118.31 per FO for CW-81 (cfs) Authority (cfs) 14.77 cost West-F Proje Maximum Rate	Duty Reduction (AF) 2,064.40	Per Acre Di (AF/ac 3. 4. 4. 4. 4. 80937)
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Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not Combined total inclicombined total combined total	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre Dt. (AF/acr 3. 4. 4. d 80937) Not Applicable Per Acre Dt. (AF/acr 3.9
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not Combined total inclicombined total of Structure of S	Priority Date 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50 der permit S-33954 Acre Reduction (acres) 642.1 Acre Equivalents 642.1 Acre Equivalents 92.30	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre DL (AF/aci 3. 4. 4. d 80937) Not Applicable Per Acre DL (AF/aci 3.9
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not Combined total inclic Combined total cfs I CW-81 completion a Certificate 90177 88877 80937 Certificate 90177 88877 80937	Priority Date 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50 der permit S-33954 Acre Reduction (acres) 642.1 Acre Equivalents 642.1 Acre Equivalents 642.1 Acre Reduction (acres) 642.1 Acre Equivalents 642.1 Acre Reduction (acres) 642.1 Acre Equivalents 92.30 37.30	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre Du (AF/acr 3.1 4.1 4.1 d 80937) Not Applicable Per Acre Du (AF/acr 3.9
Certificate (superseded) 90177 (88876) 88877 80937 Certificate (superseded) 90177 (88876) 88877 80937 Combined total not Combined total inclicombined total of Structure of S	Priority Date 9/18/1968	Source Crooked River	CW-81 Reduction Acre Reduction (acres) 520.00 Acre Equivalents 5,052.90 92.30 37.30 5,145.20 5,182.50 der permit S-33954 Acre Reduction (acres) 642.1 Acre Equivalents 642.1 Acre Equivalents 92.30	Rate Reduction (cfs) 12.08	Duty Reduction (AF) 2,064.40	Per Acre Du {AF/acr 3.: 4.4 4.0 d 80937)

			Maximum Rate	Maximum Duty	Per Acre Dut
Certificate	Priority Date Source	Acres	(cfs)	(AF)	(AF/acre
72281	6/23/1955 Crooked River	49,866.00	200.00	199,464.00	
72282	6/23/1955 Crooked River	133.90	3.35	535.60	
ombined total		49,999.90	200.00	199,999.60	

Originating Certificate	Priority Date	Source	Season	Rate (cfs)	Maximum Duty (AF)	Per Acre Duty (af/acre)	Acre
	10/31/1900	Deschutes River	1	2.025			
83571	10/31/1900	Deschutes River	2	2.700		2.5	642.:
833/1	10/31/1900	Deschutes River	3	3.569			,
	12/2/1907	Deschutes River	3	1.430			
mbined Total				4.999	1605.17		

Table 5. West-F.L	able 5. West-F Lateral: State's portion of the CW									
Originating				Maximum Rate	Maximum Duty					
Certificate*	Priority Date	Source	Season .	(cfs)	(AF)	Reach				
90177	9/18/1968	Crooked River	4/1 through 10/31	5.99		Crooked River from the POD identified in Certificate 90177 to the mouth				

^{*}Combined total cfs NTE 103.54 cfs (for certificates 90177,88877, 80937) after project completion.

See Table 2 reductions "New Project - and Remaining Crooked River Rights post West-F project."

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West-F CW (COID)

	cfs	Days	AF
Season 1	2.025	56	224.93
Season 2	2.7	30	160.66
Season 3	4.999	123	1219.58
		209	1605.17

ISWR (Crooked R.)						
AF CW	1605.17					
Acres	642.1					
AF ISWR	2542.72					
Max Rate	5.99					

642.1 acres with Crooked River rights (90177) go instream and the acres are served with the Deschutes CW

642.1*3.96=2542.72

5.99 cfs (4/1-10/31, 214 days)

(3.96 ac-ft/ac per final order CW-81)

West-F Lateral Project - Conserved Water Calculations

Pre-Project POD #11 only (Rates as of 11/14/17)

	Full Rate	1900	1907	Duty
Season 1	196.673	196.673		
Season 2	268.304	268.304	The state of the s	
Season 3	512.365	365.766	146.599	162,615.58

Duty (AF/ac)

9.44

	Full Rate	1900	1907	Duty
Season 1	2.025	2.025		
Season 2	2.7	2.700		
Season 3	4.999	3.569	1.430	1,605.17

Post-Project POD #11 only

	Full Rate	1900	1907	Duty
Season 1	194.648	194.648		
Season 2	265.604	265.604		
Season 3	507.366	362.197	145.169	161,010.41

Additional permanent instream transfers finalized since 2015

Based on OWRD's COID instream calculator start point POD #11, last updated 11/14/2017

JAN 2 8 2020

^{*}Deschutes conserved water from POD #11 goes on 642.1 acres NUID lands, Crooked River water comes 642.1 acres of NUID lands

West F Lateral

New	Project	Phase	IV

Manah	Pre West F Dry Year	Pre West F Non-Dry	West F Conserved		Non-Dry Year
Month	Flows	Year Flows	Water	Flows	Flows
	cfs	cfs	cfs	cfs	cfs
April	120.617	181.417	1.175	121.792	182.592
May	43.798	95.598	3.654	47.452	99.252
June	54.381	86.081	5.312	59.693	91.393
July	51.451	61.451	5.674	57.125	67.125
August	56.846	68.146	6.303	63.149	74.449
September	57.599	114.219	3.637	61.235	117.855
October	121.874	151.574	0.677	122.551	152.251

Crooked River Agreement flows

The conserved water totals 1605.17 af

Phase I & II completed
Phase III on hold
Phase IV (new project/West-F)

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Attachment #3

Management agreement for managing minimum instream flows (post-project) in the Crooked River.

AND

Interoffice Memo for North Unit Irrigation District Water Accounting (OWRD)

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ATTACHEMENT 3

Table 2. This table shows the development of the minimum monthly Crooked River stream flows required in <u>Dry Years</u> after issuance of the Final Order, pursuant to the Dry Year Declaration metric set forth in Section 1 above. Column L establishes the minimum stream flows. Columns D, E, F, G, H and I are finalized. Columns J and K are subject to the approval of and issuance of Final Orders for Phase IV. As described in Section 34, the described rates may also change under specified conditions.

				Phas	e 1		Phase	e II	Phas	e IV	
Α	В	С	D	E	F	G	Н	_	1	К	L
1			CW-75 Final	CW-75 Final	CW-75 Final	CW-75 Final	CW-81 Final	CW-81 Final			
1	Pre-Project 90%	Proportion of	Order 1 - 7,092 af (Order 1 - 7,092 af	Order 2 - 788 af	Order 2 - 788 af	1,300 af	1,300 af	Phase IV - 1,605	Phase IV - 1,605	Minimum Stream
1	Exceedance	Pumping During	Allocated	Allocated	Allocated	Allocated	Allocated	Allocated	af Allocated	af Allocated	Flow (cfs) Post
Month	Stream Flow (cfs)	Month	Monthly (af)	Monthly (cfs)	Monthly (af)	Monthly (cfs)	Monthly (af)	Monthly (cfs)	Monthy (af)	Monthly (cfs)	Final Orders
Apr	113.9	4.354%	308.795	5.189	34.311	0.577	56.604	0.951	69.891	1.175	121.792
May	22.9	13.997%	992.699	16.145	110.300	1.794	181.967	2.959	224.683	3.654	47.452
Jun	24	19.693%	1396.602	23.471	155.178	2.608	256.004	4.302	316.100	5.312	59.693
Jul	19	21.736%	1541.501	25.070	171.278	2.786	282.565	4.595	348.896	5.674	57.125
Aug	20.8	24.144%	1712,279	27.848	190.253	3.094	313.870	5.105	387.549	6.303	63.149
Sep	36.8	13.481%	956.108	16.068	106.234	1.785	175.259	2.945	216.401	3.637	61.235
Oct	118	2,595%	184.016	2.993	20.446	0.333	33.731	0.549	41.649	0.677	122.551

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Descr	iotion	ot Ta	ible 2	2

•	O) Table 2	
Column	Calculation	Description
Α	None	Month
В	None	This column represents the stream flow that was present 90% of the time during each month prior to this project from 2001 through 2010.
С	Monthly Total Crooked River Pumping from 2001-2010 / Total Annual Crooked River Pumping from 2001-2010	The proportion of NUID's annual pumping that occurred during each month based on data from 2001 through 2010.
D	7,092 af * Column C	The conserved water produced by CW-75 Final Order 1 reduced NUID's demand by 7,092 af. NUID protects this 7,092 af instream in the Crooked River. This column shows the portion of 7,092 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. These volumes are identified in Final Order 1 for CW-75 (Attachment 3).
E	Column D / Number of Days in Month / 1.98347 af per cfs per day	Column D converted to a daily rate during each month.
F	788 af * Column C	The conserved water produced by CW-75 Final Order 2 reduced NUID's demand by 788 af. NUID protects this 788 af instream in the Crooked River. This column shows the portion of 788 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. These volumes are identified in Final Order 2 for CW-75 (Attachment 3).
G	Column F / Number of Days in Month / 1.98347 af per cfs per day	Column F converted to a daily rate during each month.
н	1,300 af * Column B	The conserved water produced by CW-81 reduced NUID's demand by 1,300 af. NUID protects this 1,300 af instream in the Crooked River. This column shows the portion of 1,300 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. These volumes are identified in the Final Order for CW-81 (Attachment 3).
1	Column H / Number of Days in Month / 1.98347 af per cfs per day	Column H converted to a daily rate during each month.
1	1605 af * Column C	The conserved water produced by this project (Phase IV) will reduce NUID's demand by 1,605 af. NUID will protect this 1,605 af instream in the Crooked River. This column shows the portion of 1,605 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. This volume is subject to the issuance of a Final Order for Phase IV.
к	Column J / Number of Days in Month / 1.98347 af per cfs per day	Column J converted to a daily rate during each month.
L	Column B + Column E + Column G + Column I + Column K	Minimum stream flow is equal to the sum of the conserved allocated monthly and the stream flow that would have been present prior to the project. Columns D, E, F, G, H and I are finalized. Columns J and K are subject to the approval of and issuance of a Final Order for Phase IV. As described in Section 3, the described rates may also change under specified conditions.

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ATTACHMENT 3

Table 1. This table shows the development of the minimum monthly Crooked River stream flows required in Non-Dry Years after issuance of the Final Order, pursuant to the Non-Dry Year Declaration metric set forth in Section 1 above. Column L establishes the minimum stream flows. Columns D, E, F, G, H and I are finalized. Columns J and K are subject to the approval of and issuance of Final Orders for Phase IV. As described in Section 34, the described rates may also change under specified conditions.

			Phase I			Phase II		Phase IV			
A	В	c	D CW-75 Final	E CW-75 Final	F CW-75 Final	G CW-75 Final	H CW-81 Final	l CW-81 Final	J	К	t.
1	Pre-Project 70%	Proportion of	Order 1 - 7,092 af O	rder 1 - 7,092 af	Order 2 - 788 af	Order 2 - 788 af	1,300 af	1,300 af	Phase IV - 1,605	Phase IV - 1,605	Minimum Stream
]	Exceedance	Pumping During	Allocated	Allocated	Allocated	Allocated	Allocated	Allocated	af Allocated	af Allocated	Flow (cfs) Post
Month	Stream Flow (cfs)	Month	Monthly (af)	Monthly (cfs)	Monthly (af)	Monthly (cfs)	Monthly (af)	Monthly (cfs)	Monthly (af)	Monthly (cfs)	Final Orders
Apr	174.7	4.354%	308,795	5.189	34.311	0.577	56.604	0.951	69.891	1.175	182,592
May	74.7	13.997%	992.699	16.145	110.300	1.794	181.967	2.959	224.683	3.654	99,252
Jun	55.7	19.693%	1,396.602	23.471	155.178	2.608	256.004	4.302	316.100	5,312	91,393
Jul	29	21.736%	1,541.501	25.070	171.278	2.786	282.565	4.595	348.896	5.674	67.125
Aug	32.1	24.144%	1,712.279	27.848	190.253	3.094	313.870	5.105	387.549	6.303	74.449
Sep	93.42	13.481%	956.108	16.068	106.234	1.785	175.259	2.945	216.401	3.637	117.855
Oct	147.7	2.595%	184.016	2.993	20.446	0.333	33.731	0.549	41.649	0.677	152.251

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vescr	IDTIOI	7 OT 1	abi	e ı

Description (of Table 1	
Column	Calculation	Description
Α	None	Month
В	None	This column represents the stream flow that was present 70% of the time during each month prior to this project from 2001 through 2010.
С	Monthly Total Crooked River Pumping from 2001-2010 / Total Annual Crooked River Pumping from 2001-2010	The proportion of NUID's annual pumping that occurred during each month based on data from 2001 through 2010.
D	7,092 af * Column C	The conserved water produced by CW-75 Final Order 1 reduced NUID's demand by 7,092 af. NUID protects this 7,092 af instream in the Crooked River. This column shows the portion of 7,092 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. These volumes are identified in Final Order 1 for CW-75 (Attachment 3).
Ε	Column D / Number of Days in Month / 1.98347 af per cfs per day	Column D converted to a daily rate during each month.
F	788 af * Column C	The conserved water produced by CW-75 Final Order 2 reduced NUID's demand by 788 af. NUID protects this 788 af instream in the Crooked River. This column shows the portion of 788 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. These volumes are identified in Final Order 2 for CW-75 (Attachment 3).
G	Column F / Number of Days in Month / 1.98347 af per cfs per day	Column F converted to a daily rate during each month.
н	1,300 af * Column C	The conserved water produced by CW-81 reduced NUID's demand by 1,300 af. NUID protects this 1,300 af instream in the Crooked River. This column shows the portion of 1,300 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. These volumes are identified in the Final Order for CW-81 (Attachment 3).
.1	Column H / Number of Days in Month / 1.98347 af per cfs per day	Column H converted to a daily rate during each month.
1	1605 af * Column C	The conserved water produced by this project (Phase IV) will reduce NUID's demand by 1,605 af. NUID will protect this 1,605 af instream in the Crooked River. This column shows the portion of 1,605 af allocated to each month based on the proportion of NUID's total pumping that occurred during that month. This volume is subject to the issuance of a Final Order for Phase IV.
к	Column J / Number of Days in Month / 1.98347 af per cfs per day	Column J converted to a daily rate during each month.
L	Column B + Column E + Column G + Column I + Column K	Minimum stream flow is equal to the sum of the conserved allocated monthly and the stream flow that would have been present prior to the project. Columns D, E, F, G, H and I are finalized. Columns J and K are subject to the approval of and issuance of a Final Order for Phase IV. As described in Section 3, the described rates may also change under specified conditions.

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Interoffice Memo

South Central Region

1340 NW Wall Street, Suits 100, Bend, Orogon, 97701-1939, (503) 388-6669, Fax (503) 388-5101

DATE:

July 12, 1996

TO:

MARTHA PAGEL

FROM:

BOB MAIN

SUB:

NORTH UNIT LD. WATER ACCOUNTING

During the review of North Unit Irrigation District's (NUID) HB-3111 petition, WaterWatch (WW) raised questions concerning how the Water Resources Department (WRD) and the public could be sure that NUID drew water from the correct sources for the lands NUID irrigates. A meeting was hold in Bend, OR. on July 10, 1996 to resolve these questions. Attending were Chuck Schonnecker (NUID), Eric Glover (USBR), Reed Besson (WW), and Bob Mais (WRD).

Background:

NUID irrigates approximately 50,000 acres (priority 1913) from the Deschates River and 9,000 acres (priority 1968) from the Crooked River. The lands irrigated from the Deschates River also have a supplemental water right from the Crooked River (priority 1955). The water from these two sources is mixed together in the main canal, then distributed to the lands of the district. The amount diverted from each source is measured and recorded.

Since 1981, WRD has required that NUID pump sufficient water from Crooked River to supply the demand created by the 9,000 acres of Crooked River lands. The remainder of this memo will detail the process agreed to by the parties to ensure that this happens.

THE PROCESS

Assumptions:

Total irrigated

Crooked River irrigated

average loss from Crooked River pumps to delivery point

TD = "total scre feet delivered on the Project to date"

CRD = "Crooked River Demand"

Crooked River lands are irrigated at the same rate as Deschutes lands

Then:
ratio of Crooked River lands to total irrigated is 9000/59000-.1525
Crooked River Demand - (.1525 x TD) + .10 x (.1525 x TD) = .16775 x TD

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59,000 acros

9,000 acres

10%

The watermaster produces the "storage report" approximately monthly during the irrigation season. The first storage report of the season is not calculated until demand exceeds the natural flow of the river. As part of the storage report the watermaster will add a section that will calculate the Crooked River Demand and will record the total pumped from Crooked River to date. After each storage report is produced, NUID will make a best effort to eliminate any deficit in the total pumped from Crooked River at a constant rate over the remainder of the irrigation season. In no case shall any deficit remain at the end of the irrigation season. NUID will supply to the watermaster, prior to each storage report, the total acre feet delivered and total pumped from Crooked River. The storage reports will remain on file in the watermaster's office and open to public inspection.

This process may require NUID to pump more water from Crooked River than is actually required by Oregon water law, for it assumes that the percentage of Crooked River acres in actual production in any given year is the same percentage as Deschutes River lands in actual production. In fact, a higher percentage of Deschutes lands are irrigated in any given year than Crooked River lands. If NUID were to establish an internal water ordering system that would allow accurate measurement of Crooked River deliveries, separate from all other deliveries, then the process for calculating Crooked River Demand will be renegotiated.

JAN 2 8 2020 OWRD

Attachment #4

NUID Crooked River primary "off" lands and Deschutes conserved water "on" lands (spreadsheets and off/on maps).

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		TRA	INSFERS TR	ACKING	SHEETF	OR NOR	H UNIT II	RRIGATION	DISTRI	CT COID WE	ESTFL	LATERAL - O	r LANDS	
YTAUC	COUNTY TAXLOT	LEGAL DESCRIPTION	TOWNSHIP	RANGE	SECTION	QQ	TAXLOT	ACRES	CERT	PRIORITY	USE	POSITION	OWNER	STATUS

and the same of th	0913210000200 0913210000200	09-13-21-NE/NW-200 09-13-21-SE/SW-200	9	13	-	NE/NW		20.60		09/18/68	-		SAMSEL, SCOTT M	OFF
FFERSUN	0913210000200	U9-13-21-5E/5VV-2UU	9	13	21	SE/SW	200	0.40	90177	09/18/68	IIK	248	SAMSEL, SCOTT M	OFF
FRERSON	0913230000203	09-13-23-NE/NE-203	9	13	23	NE/NE	203	0.40	90177	09/18/68	IR	241	EAGAN JOINT TRUST	OFF
												1	HIGH PLAINS LAND & CATTLE LLC; ROCKER 3 RANCHES	
EFFERSON	0913240000200	09-13-24-SW/NW-200	9	13	24	SW/NW	200	13.60	90177	09/18/68	IR	276	DARRELL CECILIANI, ROSALYNN JAEGER	OFF
EFFERSON	0913240000200	09-13-24-NW/SW-200	9	13	24	NW/SW	200	17.80	90177	09/18/68	IR	276	DARRELL CECILIANI, ROSALYNN JAEGER	OFF
			_											
EFFERSON	0913290000100	09-13-29-NE/SE-100	9	13	29	NE/SE	100	21.50	90177	09/18/68	IR	252	FINE, PHILLIP L & SUZANNE È HANNA NKA SUZANNE FINE	OFF
FFFFRSON	0914000003900	09-14-19-NW/NW-3900	0	14	19	NW/NW	3900	31.20	90177	09/18/68	IR	251	WEIGAND RANCHES INC	OFF
LI I LIXOON	031400000000	00-14-10-14411444-0500	3	17	10	INVATION.	0300	01,20	30117	dar lorde	100	231	THE OWN I PROFILE INC	OI.
Bearing.			The same of the					The Park of	F. Y. Y.		8 Be		JASA TRUST, BENJAMIN J	8 3 37
EFFERSON	0914290000400	09-14-29-SW/SE-400	9	14	29	SW/SE	400	8.30	90177	09/18/68	IR	260	JASA TRUST, NANCY J	OFF
EEEEBOON	0014200000400	00 44 90 SEISM 400		121	20	CEICIAL	400	9.00	00477	0014 9169	III	200	JASA TRUST, BENJAMIN J	OFF
EFFERSON	0914290000400	09-14-29-SE/SW-400	9	14	29	SE/SW	400	8.90	90177	09/18/68	IR	200	JASA TRUST, NANCY J	OFF
EFFERSON	0914310000200	09-14-31-NE/NW-200	9	14	31	NE/NW	200	5.30	90177	09/18/68	IR	270	VIBBERT, H BRYCE, VIBBERT, SEAN & MEGAN	OFF
	1013010000500		10	13	1	SW/NW	THE RESERVE OF	1.60	No. of the last of			THE RESERVE OF THE PERSON NAMED IN	BUCK, LEROY & TERRI	OFF
EFFERSON	1013010000500	10-13-01-SE/NW-500	10	13	1	SE/NW	500	1.60	90177	09/18/68	IR	271	BUCK, LEROY & TERRI	OFF
			Children and A								22.0	Lancing Control	BROWN FAMILY TRUST,	
EFFERSON	1013280000200	10-13-28-NW/NW-200	10	13	28	NW/NW	200	2.30	90177	09/18/68	IR	266	BROWN, JOHN G & JUDY J TRUSTEES	OFF
FEFERSON	1013280000200	10-13-28-NE/NW-200	10	13	28	NE/NW	200	1.80	90177	09/18/68	IR	266	BROWN FAMILY TRUST, BROWN, JOHN G & JUDY J TRUSTEES	OFF
LI I LIVOOIT	1010200000200	10-10-20-14231444-200	10	10	20	14531444	200	1.00	30111	03/10/00	, 111	200	DICOVIL, COLIN O GOOD! C TICOSTEEC	OI I
EFFERSON	1013280000300	10-13-28-SW/NE-300	10	13	28	SW/NE	300	37.40	90177	09/18/68	IR	267	BROCKWAY, BRADLEY R & G CHRISTNE	OFF
EFFERSON	1013280000300	10-13-28-SE/NE-300	10	13	28	SE/NE	300	37.30	90177	09/18/68	IR .	267	BROCKWAY, BRADLEY R & G CHRISTNE	OFF
EEEEBOON	1013290000100	10-13-29-NW/SE-100	10	13	29	NW/SE	100	7.40	90177	09/18/68	10	260	CLOWERS, LINDA	OFF
	1013290000100	10-13-29-NE/SE-100	10	13	29	NE/SE	the state of the s	8.00		A CONTRACTOR OF THE PARTY OF TH			CLOWERS, LINDA	OFF
LI I LITOUT	101020000100	10 10 20 112 02 100	10	1.5		IVE	100	0.00	00117	00710.00	,,,,	200	OLOVICIO LINDY	0.,
EFFERSON	1014080000500	10-14-08-SE/NE-500	10	14	8	SE/NE	500	2.20	90177	09/18/68	IR .	261	MADSEN REVOCABLE TRUST	OFF
	40440000000	40.44.00 1041000	10	4 4 10 10 10 10	00	A B 8 7 7 8 8 4	000	4.00	004	00400		200	PODUCTAL! AFRALL S DENAL	OFF
Annual Control of the	1014200000300	10-14-20-NW/NW-300 10-14-20-SW/NW-300	THE RESERVE AND ADDRESS OF THE PARTY.	14	20	NW/NW SW/NW		4.80		09/18/68	_		FORRISTALL, VERN L & DENA L FORRISTALL, VERN L & DENA L	OFF
EHHENSON	101420000000	10-14-20-344/1444-300	10	in Internation	20	SAANIARA	300	4.50	801/1	UBI TO/OC	J IIV	200	PORNISTALL, VERN L & DEIVA L	QI.I.
IEFFERSON	1014200000600	10-14-20-NE/SE-600	10	14	20	NE/SE	600	17.90	90177	09/18/68	IR	282	MILLER, FETURAH G	OFF
EFFERSON	1014200000600	10-14-20-SE/SE-600	10	14	20	SE/SE	600	13.50	90177	09/18/68	IR	282	MILLER, FETURAH G	OFF
IEEEEBOON	1014220000500	10-14-28-SW/SW-500	10	14	70	SW/SW	E00	10.90	00477	00/40/00) ID	250	GOSS, MICHAEL D & REBECCA I	OFF
	1014280000500 1 1014280000500	10-14-28-SE/SW-500	10	14	28 28	SE/SW		10.80		-			GOSS, MICHAEL D & REBECCA I	OFF
LI I LINGON	101,120000000	10 14 20 02/014 000	10	1	20	OLOTT	000	1 22.00	30171	00/10/00		200	, cood, morale b a nebedoni	0,1
EFFERSON	101431BC00901	10-14-31-SW/NW-901	10	14	31	SW/NW	901	0.70	90177	09/18/68	IR .	272	LONG, DONALD T & MARGIE Y	OFF
EEEEBCON	101431BD00700	10-14-31-SE/NW-700	40	44	24	OFABAL	700	0.00	00477	09/18/68	100	05/	LIANGON LONNY & DEPRIE	OFF
EFFERSUN	1014316000700	10-14-31-31/1999-700	10	14	31	SE/NW	700	0.80	90177	09/10/00	O IR	25	HANSON, LONNY & DEBBIE	OFF
IEFFERSON	101431C001800	10-14-31-NE/SW-1800	10	14	31	NE/SW	1800	2.20	90177	09/18/68	B IR	244	LENO, EDWIN & TERESA	OFF
EFFERSON	101431C002201	10-14-31-NE/SW-2201	10	14	31	NE/SW	2201	2.60	90177	09/18/68	BIR	263	CAMPOS, CECILIA E	OFF
EEEEDEON	1 111214PC01000	11 12 14 CIAUANAI 4000	11	12	14	CIA//NIA	1000	0.20	00477	0014010	a ID	251	LAMIET CARVIE VATURANIA	OFF
IELLEKOON	111314BC01900	11-13-14-SW/NW-1900		13	14	SW/NW	1900	0.30	90177	09/18/68	o irt	200	HAMLET, GARY J & KATHRYN K	OFF
JEFFERSON	1 111314BD00402	11-13-14-SE/NW-402	11	13	14	SE/NW	402	0.50	90177	9/18/6	BIR	269	SOSA JOSE LUIS & SOSA GEORGIA	OFF
CONTRACTOR OF THE PERSON NAMED IN	1113150001100	11-13-15-NW/SE-1100		13	15	NW/SE		21.40					B BEAR TRACKS RANCH LLC	OFF
JEFFERSON	1 1113150001100	11-13-15-NE/SE-1100	11	13	15	NE/SE	1100	1.90	90177	9/18/6	BIR	23	B BEAR TRACKS RANCH LLC	OFF

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COUNTY	COUNTY TAXLOT	LEGAL DESCRIPTION	TOWNSHIP	RANGE	SECTION	QQ	TAXLOT	ACRES	CERT	PRIORITY	USE	POSITION	OWNER	STATUS
JEFFERSON	1113240000502	11-13-24-SE/SE-502	11	13	24	SE/SE	502	2.70	90177	09/18/68	IR	246	KILLINGSWORTH, MICKEY M	OFF
EFFERSON	1113250000200	11-13-25-NW/NE-200	11	13	25	NW/NE	200	28.30	90177	09/18/68	IR	245	WORRELL TRUST	OFF
JEFFERSON	1113280000200	11-13-28-NE/NW-200	11	13	28	NE/NW	200	0.60	90177	09/18/6/8	IR	283	VANEK, ROBERT W & ROBERTA S	OFF
JEFFERSON	1113310000201	11-13-31-NW/NE-201	11	13	31	NW/NE	201	0.80	90177	09/18/68	IR	247	NISLEY, TED W & ALICE M	OFF
JEFFERSON	1113310000300	11-13-31-NW/NE-300	11	13	31	NW/NE	300	19.20	90177	09/18/68	IR	275	MACY FARMS LLC	OFF
JEFFERSON	1113310000600	11-13-31-NW/SW-600	11	13	31	NW/SW	600	7.30	90177	09/18/68	IR	279	BOEHME, ELAINE & HAMILTON, CHARITY	OFF
	1113310000600		11	13	31	SW/SW		28.30	THE PERSON NAMED IN	The second second			BOEHME, ELAINE & HAMILTON, CHARITY	OFF
JEFFERSON	1113340001100	11-13-34-SW/NW-1100	11	13	34	SW/NW	1100	0.40	90177	09/18/68	IR	256	BAUER, JAMES J & ELIZABETH	OFF
JEFFERSON	1113350000300	11-13-35-SW/SW-300	11	13	35	sw/sw	300	23.80	90177	09/18/68	IR	264	PRUITT, ROBERTA ELIZABETH	OFF
JEFFERSON	1114000001800	11-14-32-SW/NE-1800	11	14	32	SW/NE	1800	4.80	90177	09/18/98	IR	255	NORTON LAND COMPANY LLC	OFF
JEFFERSON	1114000001800	11-14-32-SE/NE-1800		14	32	SE/NE		30.50					NORTON LAND COMPANY LLC	OFF
JEFFERSON	1114000001900	11-14-29-NW/NW-1900	11	14	29	NW/NW	1900	16.90	90177	09/18/68	IR	277	NORTON LAND COMPANY LLC	OFF
JEFFERSON	1212120000900	12-12-12-SE/NE-900	12	12	12	SE/NE	900	10.50	90177	09/18/68	IR	254	E ROBERT SCHOEPPER II & STEPHANIE S SCHOEPPER TRUST	OFF
JEFFERSON	1212120001301	12-12-12-NW/SE-1301	12	12	12	NW/SE	1301	2.10	90177	09/18/68	IR	253	FISCUS, MELVIN & MARILYN	OFF
JEFFERSON	1212120001301	12-12-12-SW/NE-1301	12	12	12	SW/NE	1301	0.50	90177	09/18/68	IR	253	FISCUS, MELVIN & MARILYN	OFF
JEFFERSON	1212120001500	12-12-12-SE/SE-1500	12	12	12	SE/SE	1500	1.80	90177	09/18/68	IR	278	LARSEN, HARRY T & ALBERTA M	OFF
JEFFERSON	1212340000100	12-12-34-NE/NE-100	12	12	34	NE/NE	100	36.00	90177	09/18/68	IR	281	GUNTHER, ANDREW & TRACY	OFF
JEFFERSON	1212360000200	12-12-36-NE/NW-200	12	12	36	NE/NW	200	15.50	90177	09/18/68	IR	249	ANGLE, RONALD L & JAMIE L	OFF
NAME AND ADDRESS OF TAXABLE PARKS.	1212360000200	12-12-36-NW/NW-200	12	12	36	NW/NW		34.30			And in column 2 is not a local division in column 2 is not a local	AND REAL PROPERTY AND ADDRESS OF THE OWNER.	ANGLE, RONALD L & JAMIE L	OFF
the second secon	1213060000200	12-13-06-NE/NW-200	12	13	6	NE/NW	_	1.60	Name of Street, or other Designation of the Owner, where the Parket of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic		-		MILLER, KRISTY K	OFF
JEFFERSON	1213060000200	12-13-06-NW/NW-200	12	13	6	NW/NV	200	0.30	90177	09/18/68	IR	242	MILLER, KRISTY K	OFF
JEFFERSON	1213090000302	12-13-09-SW/NE-302	12	13	9	SW/NE	302	0.10	90177	09/18/68	IR	243	LIGHT, CHARLES H & SUSAN L	OFF
JEFFERSON	1213140000800	12-13-14-SW/SW-800	12	13	14	SW/SW	800	18.60	90177	09/18/68	IR	257	SMITH, SHAWN R & CHRISTINE A	OFF
JEFFERSON	1213160000500	12-13-16-SW/NE-500	12	13	16	SW/NE	500	5.40	90177	09/18/68	IR	239	BISSELL, LEE & JANET	OFF
JEFFERSON	1213160000500	12-13-16-NW/SE-500	12	13	16	NW/SE	500	1.60	90177	09/18/68	IR	THE RESERVE AND ADDRESS OF THE PARTY OF THE	BISSELL, LEE & JANET	OFF
JEFFERSON	1213160000500	12-13-16-NE/SW-500	12	13	16	NE/SW	500	3.80	90177	09/18/68	IR	239	BISSELL, LEE & JANET	OFF
	1213160000700	12-13-16-SE/SW-700	12	13	16	SE/SW		6.30					DRAKE, FAY M REVOCABLE LIVING TRUST	OFF
JEFFERSON	1213160000700	12-13-16-SW/SE-700	12	13	16	SW/SE	700	7.60	90177	09/18/68	IR	284	DRAKE, FAY M REVOCABLE LIVING TRUST	OFF

 Off lands
 642.10

 On lands
 0.00

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		IR/				OK NOR		IKKIGATIO	N DISTR	RICT COID V	WESTFL	LATERAL - C	TV EARDO	
YTNUC	COUNTY TAXLOT	LEGAL DESCRIPTION	TOWNSHIP	RANGE	SECTION	QQ	TAXLOT	ACRES	CERT	PRIORITY	USE	POSITION	OWNER	STATU
EEEDSON	0913210000200	09-13-21-NE/NW-200	9	13	21	NE/NW	200	20.60	Similar Control		IR	248	SAMSEL SCOTT M	ON
	0913210000200	09-13-21-NE/NW-200	9	13	21	SE/SW		0.40			IR		SAMSEL SCOTT M	ON
IT ENGON	0313210000200	09-10-21-30-344-200	3	13	Z1	3D344	200	0.40			IIX	240	SAINGEL, SCOTT IN	ON
FFERSON	0913230000203	09-13-23-NE/NE-203	9	13	23	NE/NE	203	0.40			IR	241	EAGAN JOINT TRUST	ON
									1				HIGH PLAINS LAND & CATTLE LLC ROCKER 3 RANCHES	
FFERSON	0913240000200	09-13-24-SW/NW-200	9	13	24	SW/NW	200	13.40			IR	276	DARRELL CECILIANI, ROSALYNN JAEGER	ON
EFFERSON	0913240000200	09-13-24-NW/SW-200	9	13	24	NW/SW	200	18.00			IR	276	DARRELL CECILIANI, ROSALYNN JAEGER	ON
EEEBOON	0913290000100	09-13-29-NE/SE-100	9	13	29	NE/SE	100	21.50			IR	250	FINE, PHILLIP L & SUZANNE E HANNA NKA SUZANNE FINE	ON
EFFERSON	091329000100	03-13-23-NE/SE-100	9	13	25	NE/SE	100	21.50		Des Sandadays	IIX	252	PINE, PHILLIP L & SUZAINNE E FANNINA INTA SUZAINNE FINE	UN
EFFERSON	0914000003900	09-14-19-NW/NW-3900	9	14	19	NW/NW	3900	31.20			IR	251	WEIGAND RANCHES INC	ON
													JASA TRUST, BENJAMIN J	
EFFERSON	0914290000400	09-14-29-SW/SE-400	9	14	29	SW/SE	400	8.30	10000		IR	260	JASA TRUST, NANCY J	ON
CECEDOON	0014200000400	00-14-20 SEISM 400	9	14	20	QE/QIAI	400	9.00			ID	200	JASA TRUST, BENJAMIN J	ON
LIFERSUN	0914290000400	09-14-29-SE/SW-400	3	14	29	SE/SW	400	8.90			IR	260	JASA TRUST, NANCY J	ON
EFFERSON	0914310000200	09-14-31-NE/NW-200	9	14	31	NE/NW	200	5.30	1000	A PERSONAL PROPERTY.	IR	270	VIBBERT, HI BRYCE, VIBBERT, SEAN & MEGAN	ON
FEFERSON	1013010000500	10-13-01-SW/NW-500	10	13	1	SW/NW	500	1.60			IR	271	BUCK, LEROY & TERRI	ON
	1013010000500	10-13-01-SE/NW-500	10	13	1	SE/NW		1.60	Action and sections, where the		IR		BUCK, LEROY & TERRI	ON
rrrnoon	404000000000	40 40 00 184/1184 000	40	40	00		000	0.00			100	000	BROWN FAMILY TRUST,	211
EFFERSON	1013280000200	10-13-28-NW/NW-200	10	13	28	NW/NW	200	2.90		-	IR	260	BROWN, JOHN G & JUDY J TRUSTEES BROWN FAMILY TRUST.	ON
EFFERSON	1013280000200	10-13-28-NE/NW-200	10	13	28	NE/NW	200	1.20	Miles In		IR	266	BROWN, JOHN G & JUDY J TRUSTEES	ON
FEFERSON	1013280000300	10-13-28-SW/NE-300	10	13	28	SW/NE	300	37.40			IR	267	BROCKWAY, BRADLEY R & G CHRISTNE	ON
	1013280000300	10-13-28-SE/NE-300	10	13	28	SE/NE		37 30	ACCUSE OF THE PARTY.		1R	to the same of the	BROCKWAY, BRADLEY R & G CHRISTNE	ON
	1013290000100	10-13-29-NW/SE-100	10	13	29	NW/SE	100	7.40	-		IR		CLOWERS, LINDA	ON
	1013290000100	10-13-29-NE/SE-100	10	13	29		100	6.40	+		IR		CLOWERS, LINDA	ON
	1013290000100	10-13-29-SE/NE-100	10	13	29		100	0.20			IR		CLOWERS, LINDA	ON
EFFERSON	1013290000100	10-13-29-NE/NE-100	10	13	29	NE/NE	100	1.40			IR	269	CLOWERS, LINDA	ON
EFFERSON	1014080000500	10-14-08-SE/NE-500	10	14	8	SE/NE	500	1.50		522/25/455	IR	261	MADSEN REVOCABLE TRUST	ON
EFFERSON	1014080000500	10-14-08-SW/NE-500	10	14	8	SW/NE	1	0.70		45000000000	IR	261	MADSEN REVOCABLE TRUST	ON
	4.04.4000000000	40.44.00.18401841.000	40		00	A B 41/5 (1 4)	000	4.00			10	000	CODDISTALL VERNIL & SENA I	CNI
	1 1014200000300	10-14-20-NW/NW-300 10-14-20-SW/NW-300		14	20	NW/NW SW/NW		4.80	THE RESERVE AND PERSONS ASSESSMENT	-	IR IR		FORRISTALL, VERN L & DENA L	ON
LI LICON	1014200000000	10-14-20-314/1414-300	10	177	20	STEERS	300	7.00	-		THE STATE OF THE S	200	I Olddo Mari, Virgi C & Dillan C	CIT
JEFFERSON	1014200000600	10-14-20-NE/SE-600	10	14	20	NE/SE	600	17.60	10.700		IR	282	MILLER, FETURAH G	ON
EFFERSON	1014200000600	10-14-20-SE/SE-600	10	14	20	SE/SE	600	13.80			IR	282	MILLER, FETURAH G	ON
IEFFERSON	1 1014280000500	10-14-28-SW/SW-500	10	14	28	SW/SW	500	10.80			IR	250	GOSS, MICHAEL D & REBECCA I	ON
	1014280000500	10-14-28-SE/SW-500	10	14	28	SE/SW		22.60	-	120000	IR		GOSS, MICHAEL D & REBECCA I	ON
EFFERSON	1 101431BC00901	10-14-31-SW/NW-901	10	14	31	SW/NW	901	0.70			IR	272	LONG, DONALD T & MARGIE Y	ON
EFFERSON	101431BD00700	10-14-31-SE/NW-700	10	14	31	SE/NW	700	0.80			IR	259	HANSON, LONNY & DEBBIE	ON
FFFFRSON	1 101431C001800	10-14-31-NE/SW-1800	10	14	31	NE/SW	1800	2.20			IR	244	LENO EDWIN & TERESA	ON
								2,20			71 %	21	, and a series of the series o	
JEFFERSON	101431C002201	10-14-31-NE/SW-2201	10	14	31	NE/SW	2201	2.60			IR	263	CAMPOS, CECILIA E	ON
JEFFERSON	111314BC01900	11-13-14-SW/NW-1900	11	13	14	SW/NW	1900	0.30			IR	258	HAMLET, GARY J & KATHRYN K	ON
JEFFERSON	N 111314BD00402	11-13-14-SE/NW-402	11	13	14	SE/NW	402	0.50			IR	26	SOSA, JOSE LUIS & SOSA, GEORGIA	ON

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COUNTY	COUNTY TAXLOT	LEGAL DESCRIPTION	TOWNSHIP	RANGE	SECTION	QQ	TAXLOT	ACRES	CERT	PRIORITY	USE	POSITION	OWNER	STATUS
JEFFERSON	1113150001100	11-13-15-NW/SE-1100	11	13	15	NW/SE	1100	21.40	10.0000		IR	238	BEAR TRACKS RANCH LLC	ON
	1113150001100	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	1.1	13	15		1100	1.90			IR	THE RESERVE THE PARTY OF THE PA	BEAR TRACKS RANCH LLC	ON
JEFFERSON	1113240000502	11-13-24-SE/SE-502	11	13	24	SE/SE	502	2.70			IR	246	KILLINGSWORTH, MICKEY M	ON
JEFFERSON	1113250000200	11-13-25-NW/NE-200	11	13	25	NW/NE	200	26.80	600		IR	245	WORRELL TRUST	ON
JEFFERSON	1113250000200	11-13-25-NW/SE-200	11	13	25	NW/SE	200	1.50	STEELS.		IR	245	WORRELL TRUST	ON
JEFFERSON	1113280000200	11-13-28-NE/NW-200	11	13	28	NE/NW	200	0.60			IR	283	VANEK, ROBERT W & ROBERTA S	ON
JEFFERSON	1113310000201	11-13-31-NW/NE-201	11	13	31	NW/NE	201	0.80			IR	247	NISLEY, TED W & ALICE M	ON
JEFFERSON	1113310000300	11-13-31-NW/NE-300	11	13	31	NW/NE	300	19.20			IR	275	MACY FARMS LLC	ON
JEFFERSON	1113310000600	11-13-31-NW/SW-600	11	13	31	NW/SW	600	7.60	Decesso		IR	270	BOEHME ELAINE & HAMILTON, CHARITY	ON
STATE OF THE PARTY	1113310000600	11-13-31-SW/SW-600	11	13	31	SW/SW	-	28.00			IR	-	BOEHME, ELAINE & HAMILTON, CHARITY	ON
JEFFERSON	1113340001100	11-13-34-SW/NW-1100	11	13	34	SW/NW	1100	0.40			IR	256	BAUER, JAMES J & ELIZABETH	ON
JEFFERSON	1113350000300	11-13-35-SW/SW-300	11	13	35	SW/SW	300	23.80			IR	264	PRUITT, ROBERTA ELIZABETH	ON
		44 44 22 CININE 4000	4.4								ID	255	NORTON LAND COMPANY LLC	ON
	1114000001800 1114000001800	11-14-32-SW/NE-1800 11-14-32-SE/NE-1800		14	32	SW/NE SE/NE		4.80 30.50			IR IR		NORTON LAND COMPANY LLC	ON
JEFFERSON	1114000001900	11-14-29-NW/NW-1900	11	14	29	NW/NV	1900	16.90			IR	277	NORTON LAND COMPANY LLC	ON
MARKET NAME OF THE PARTY OF THE		19 10 10 10 10 10 10 10 10 10 10 10 10 10			O Barbara San								E ROBERT SCHOEPPER II &	
JEFFERSON	1212120000900	12-12-12-SE/NE-900	12	12	12	SE/NE	900	10.50			IR	254	STEPHANIE S SCHOEPPER TRUST	ON
	1212120001301	12-12-12-NW/SE-1301	_	12	12	NW/SE		2.30			IR		FISCUS, MELVIN & MARILYN	ON
JEFFERSON	1212120001301	12-12-12-SW/NE-1301	12	12	12	SW/NE	1301	0.30	0		IR	253	FISCUS, MELVIN & MARILYN	ON
JEFFERSON	1212120001500	12-12-12-SE/SE-1500	12	12	12	SE/SE	1500	1.80	RELEASE OF		IR	278	LARSEN, HARRY T & ALBERTA M	ON
JEFFERSON	1212340000100	12-12-34-NE/NE-100	12	12	34	NE/NE	100	36.00			IR	281	GUNTHER, ANDREW & TRACY	ON
JEFFERSON	1212360000200	12-12-36-NE/NW-200	12	12	36	NE/NW	200	13.80			IR	249	ANGLE, RONALD L & JAMIE L	ON
JEFFERSON	1212360000200	12-12-36-NW/NW-200	12	12	36	NW/NV	200	36.00)		IR	249	ANGLE, RONALD L & JAMIE L	ON
And the Control of th	1213060000200	12-13-06-NE/NW-200	12	13	6	NE/NW	Co. Bridge Street, Co. St. Co. St.	1.60			IR	the state of the s	MILLER, KRISTY K	ON
JEFFERSON	1213060000200	12-13-06-NW/NW-200	12	13	Ь	NW/NV	200	0.30) Received		IR	24.	MILLER, KRISTY K	ON
JEFFERSON	1213090000302	12-13-09-SW/NE-302	12	13	9	SW/NE	302	0.10			IR	24:	LIGHT, CHARLES H & SUSAN L	ON
JEFFERSON	1213140000800	12-13-14-SW/SW-800	12	13	14	SW/SW	800	18.60			IR	25	SMITH, SHAWN R & CHRISTINE A	ON
	1213160000500	12-13-16-SW/NE-500	12	13	16	SW/NE		5.00			IR		BISSELL, LEE & JANET	ON
	1213160000500	12-13-16-NW/SE-500 12-13-16-NE/SW-500	12 12	13	16 16	NW/SE NE/SW		3.86			IR IR	The second second second	BISSELL, LEE & JANET BISSELL, LEE & JANET	ON ON
	1213160000700	12-13-16-SE/SW-700	12	13	16	SE/SW		6.3			IR	28	DRAKE, FAY M REVOCABLE LIVING TRUST	ON
	1213160000700	12-13-16-SW/SE-700	12	13	16	SW/SE		7.6			IR	and the second s	DRAKE FAY M REVOCABLE LIVING TRUST	ON
							total ac	642.1						

total ac 642.10

Off lands 0.00 On lands 642.10

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