

Form 222
1-87STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESAPPLICATION FOR TRANSFER OF WATER RIGHT
PART 1RECEIVED
MAY 21 2008Department of Water Resources
Eastern Region

Name of Applicant Creekside Meadows, LLC Phone _____
 Applicant's Address: PO Box 1170, Wilson, WY 83014 Applicant's Email: bruce7440@yahoo.com
 Attorney Name: Robert L. Harris Attorney Email: rharris@holdenlegal.com Phone (208) 523-0620
 Attorney PO address c/o Holden, Kidwell, Hahn & Crapo, P.L.L.C., PO Box 50130, Idaho Falls, Idaho 83405

A. PURPOSE OF TRANSFER

1. ☒ Change point of diversion ☒ Add diversion point(s) ☐ Change place of use
☒ Change nature of use ☒ Change period of use ☐ Other _____

2. Describe the reason for the proposed changes To change a portion of water right authorized for irrigation to allow for small ponds and construction of wetlands. Also to change POD which is now located on Applicant's property and to add POD for pond.

B. DESCRIPTION OF RIGHT(S) OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1.	Right Number	Priority	Amount (cfs/ac-ft)	Nature of Use	Period of Use
	<u>22-500D</u>	<u>06/01/1886</u>	<u>0.15 cfs</u>	<u>Irrigation</u>	<u>04/15</u> to <u>10/31</u>
			<u>0.05 cfs</u>	<u>Diversion to Storage</u>	<u>04/15</u> to <u>10/31</u>
			<u>2.1 A/F</u>	<u>Wildlife Storage</u>	<u>04/15</u> to <u>12/31</u>
					<u>1 put</u> to _____
					to _____

2. Total amount of water being transferred 0.05 cubic feet per second and/or 1 acre-feet per annum.

3. Source of water Spring Creek Tributary to Teton Creek

4. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
	SE	SE	SE	36	5N	45E	Teton	Irrigation Diversion Headgate
	SE	SE	SE	36	5N	45E	Teton	Pond #7

5. Lands irrigated or place of use: (Permissible place of use for all water rights)

Twp	Rge	Sec	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	45E	35															7.5 W		7.5

Total Acres 7.5**74812**

6. General Information:

- a. Description of diversion system Irrigation, headgate and ditch into ponds.
- b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts? Yes _____ No ✓. If yes, provide a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes.
- c. Describe the effect on the land now irrigated if the place of use is changed pursuant to this transfer:
Place of use will be reduced to account for pond construction.

d. Remarks:

This transfer is being submitted in order to formally document the applicant's use of water in its subdivision for wetland mitigation ponds it was required to construct by the Army Corps of Engineers. The letter authorizing the nation wide permit is attached to this application. We submitted an original application over a year ago, and have now received updated pond volume and surface area calculations. A copy of this map is enclosed, along with a number of other maps showing the wetland areas to be created. The historic crop grown on the property was grass hay. This crop has the precipitation deficit of 627 millimeters, or 2.06 acre feet per year. The surface area of the ponds will be approximately 0.3 acres, and based upon the precipitation deficit numbers for open water shallow systems, the evaporation from the ponds will be mitigated by the non-farming of the acres the ponds will cover. The total volume of the ponds equals approximately 0.3 acre feet. The calculated evaporative loss is approximately 0.62 acre feet. To provide the applicant with a small cushion, we have proposed that one acre foot be allowed for wildlife storage, and have also requested a diversion rate of 0.05 cfs for a diversion to storage. In order to mitigation for this new use, we propose to dry up 2.5 acres of the 10 acres authorized for irrigation of this water right. The remaining 7.5 acres will remain as authorized acres as depicted on the GIS map enclosed with this application.

ACTION OF THE DIRECTOR DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. _____ and said application is hereby _____, subject to the following limitations and conditions:

Witness my hand this _____ day of _____, 2008.

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

**APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2**

(ATTACH ONE COPY FOR EACH RIGHT)

SEE ATTACHMENTS FOR IDWR RECOMMENDATION OR SRBA CLAIM

RECEIVED

MAY 21 2008

Department of Water Resources
Eastern Region

A. DESCRIPTION OF RIGHT AS RECORDED**1. Right evidenced by:**

- a. Decree No. _____ Decreed to _____
in case of _____ vs. _____
dated _____ in _____ county of _____.
- b. License No. _____ issued by the Idaho Department of Water Resources.
- c. Claim No. _____ on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach a copy of last year's tax notice for the property to which the water right is appurtenant or other documents which show ownership. Label document as attachment A. Check appropriate box below:

☐ Tax Notice

☐ Warranty Deed

☒ Other Army Corps of Engineers documents

3. Source of Water _____ tributary to _____

4. Date of priority _____

5. Water is used for the following purpose:

amount _____ for _____ purposes from _____ to _____

(cfs/ac-ft)

amount _____ for _____ purposes from _____ to _____

(cfs/ac-ft)

amount _____ for _____ purposes from _____ to _____

6. Total amount of water under right _____ cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Local name for diversion

8. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total Acres _____

9. Describe any other water rights used for the same purpose as described above _____

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use? No.
If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED*(If the entire right is to be changed by the applicant, omit part B and C)*

1. amount 0.05 cfs for Irrigation purposes from 04/15 to 10/31
(cfs/ac-ft)
amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)
amount _____ for _____ purposes from _____ to _____

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion
	SW	SW	SW	36	5N	45E	Teton	

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	45E	35																2.5	2.5

Total Acres 2.5**C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)**

1. amount 0.15 cfs for Irrigation purposes from 04/15 to 10/31
(cfs/ac-ft)
amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)
amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

2. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Local name for diversion

3. Lands irrigated or place of use:

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	45E	35																7.5	7.5

Total Acres 7.5

CREEKSIDE MEADOWS TRANSFER APPLICATION

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Legend

New_POU

Current_POU

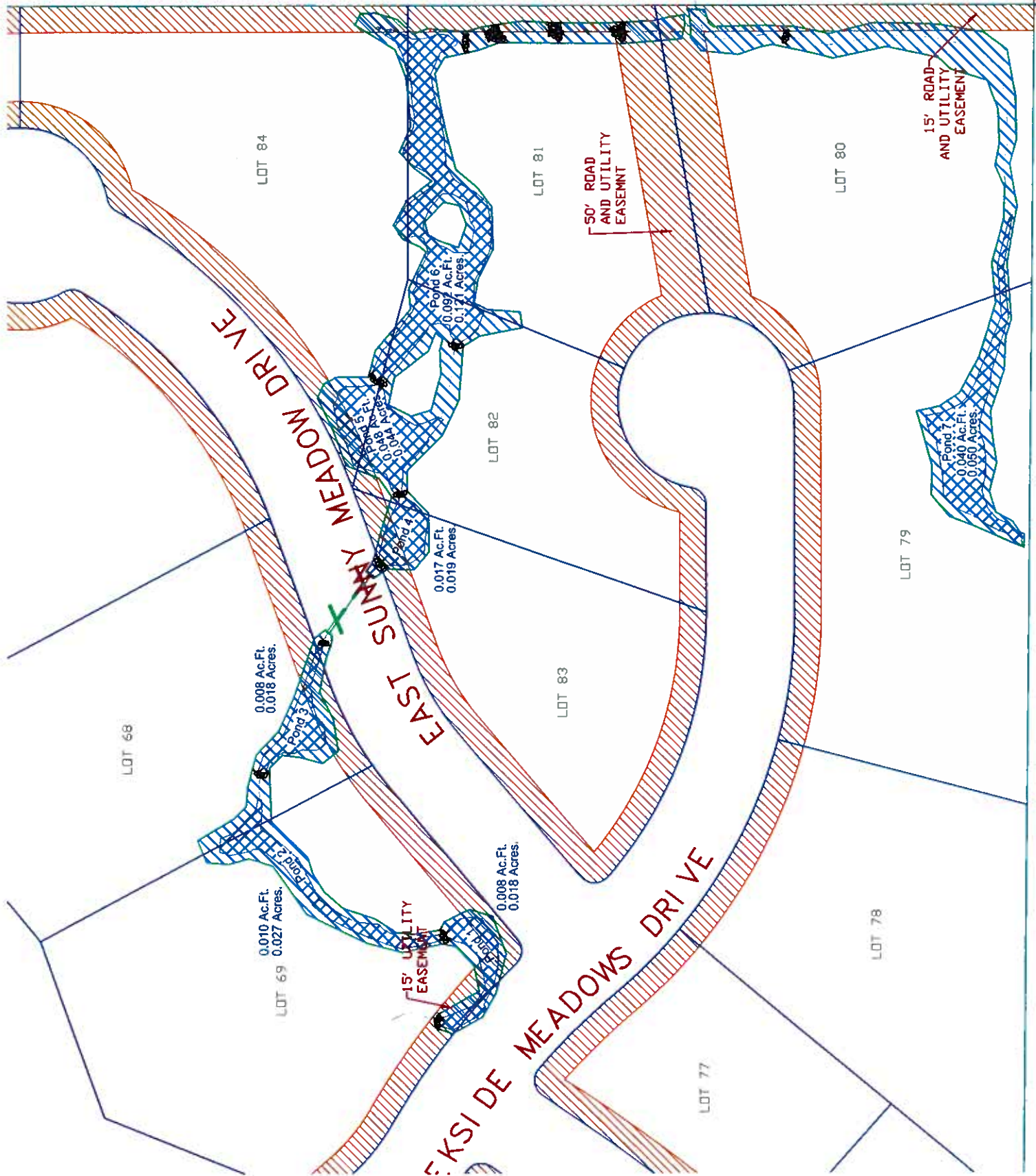
PLS-QQ

New_Point_of_Diversion

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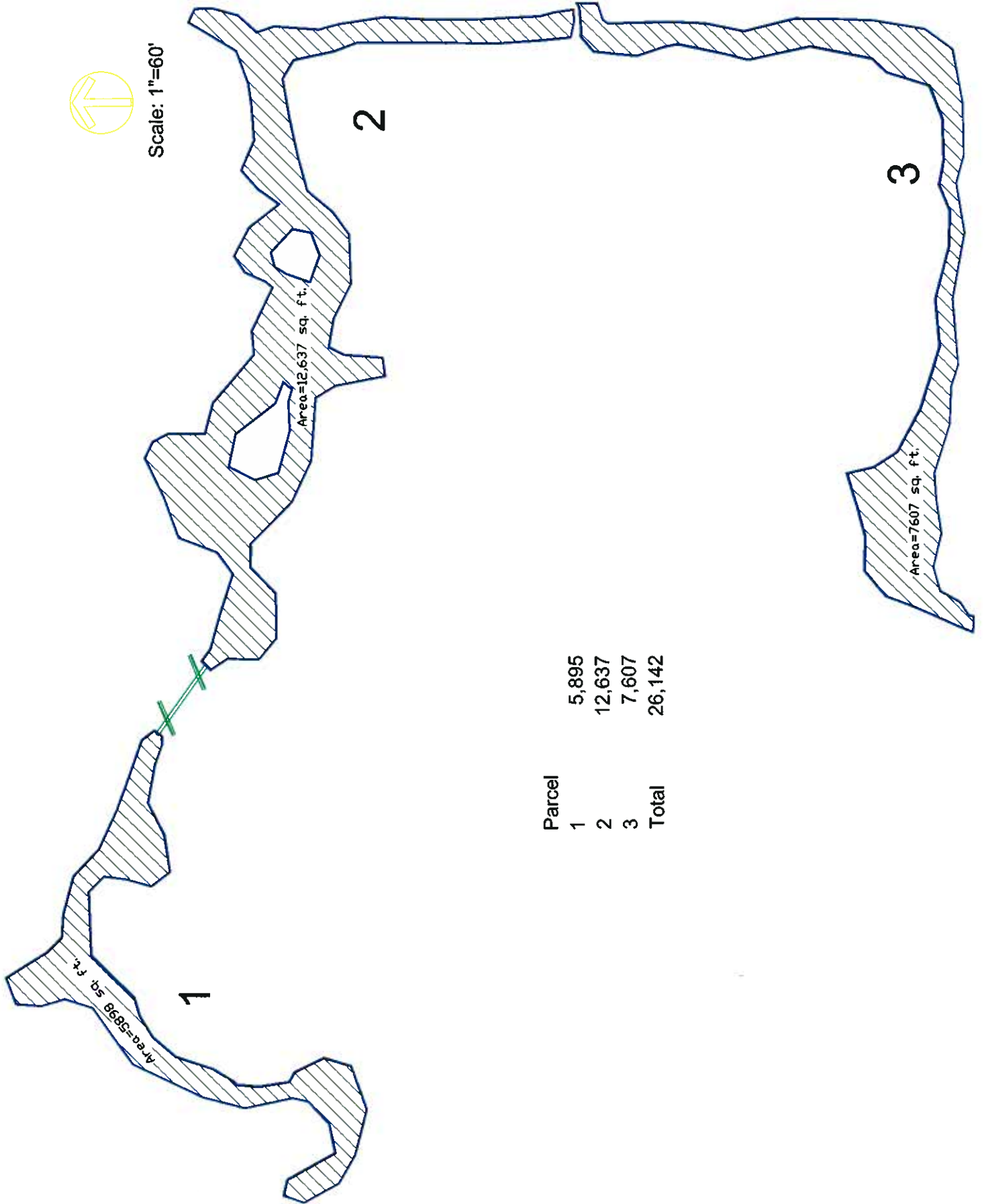
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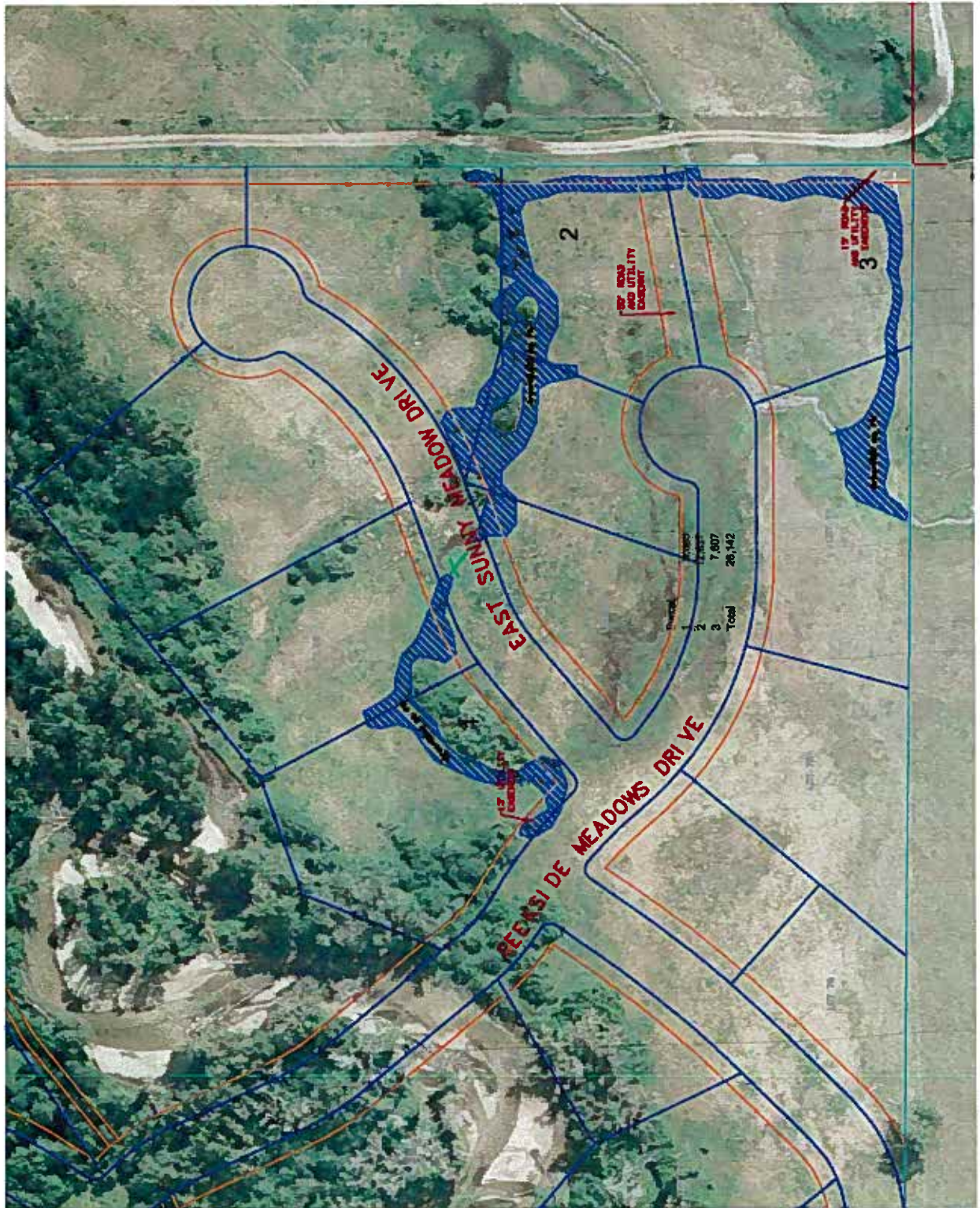
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Parcel	
1	5,895
2	12,637
3	7,607
Total	26,142



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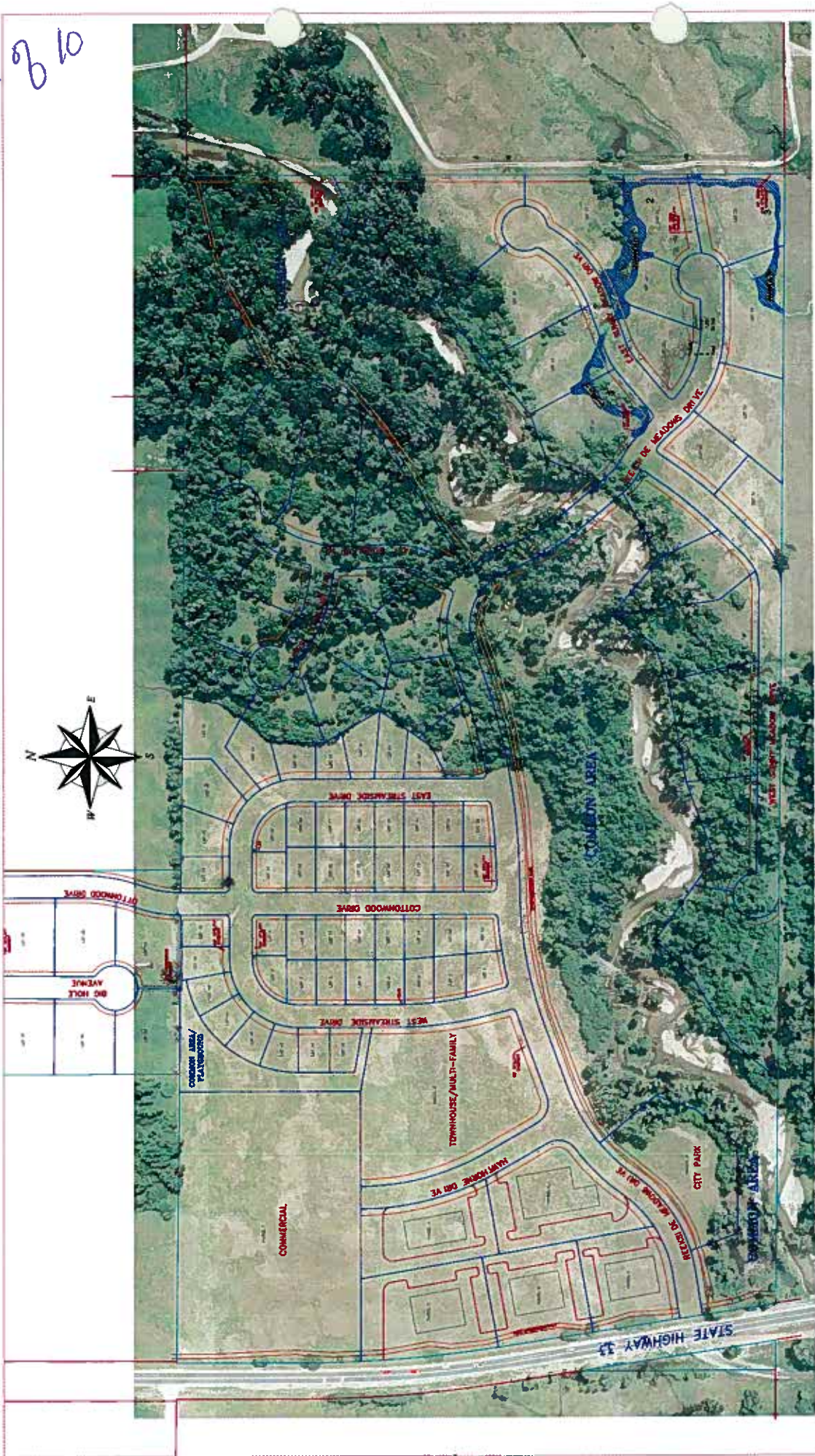
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WETLANDS
2007

CREEKSIDE MEADOWS
TETON COUNTY, IDAHO



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Transfer No. _____

B. CHANGES IN NATURE OF USE

1.	<u>New Nature of Use</u>	<u>Amount</u> (cfs/ac-ft)	<u>Hours/days/year</u>	<u>Period of Use</u>
	<u>Diversion to Storage</u>	<u>0.05 cfs</u>	<u>24/200 per year**</u>	<u>04/15</u> to <u>10/31</u>
	<u>Wildlife Storage</u>	<u>1 AF</u>	<u>24/201 per year</u>	<u>04/15</u> to <u>12/31</u>

**** as needed to fill ponds**

2. Quantity and quality of return flows and location of discharge:

No return flows.

3. Describe effects on other water uses resulting from the proposed change:

None.

I hereby asset that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge.

I understand that any willful misrepresentations made in this application may result in voiding its approval.

Robert L. Harris
Signature

ROBERT L. HARRIS, ATTORNEY
Print Name, including title



Subscribed and sworn to before me this 20th day of May, 2008.

Cheri Vandermeulen
Notary Public for 10260
Residing at: 10260 Falls, ID
My Commission Expires July 7, 2009

FOR DEPARTMENT USE ONLYTransfer contains 10 pages and 13 attachmentsReceived by _____ Date 4/2/07 Protest filed by _____Prelim. check by _____ Fee 100Receipted by _____ Date E032735Published in Idaho Valley News Copies of protest forwarded by _____

Pub. dates _____ Hearing held by _____ Date _____

Watermaster recommendation requested on _____ Recommended for ☐ approval ☐ denial

_____ rec'd _____ by _____

Copy of transfer sent to lien holder _____



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
WALLA WALLA DISTRICT, CORPS OF ENGINEERS
201 NORTH THIRD AVENUE
WALLA WALLA, WASHINGTON 99362-9265

JUL 15 2005

74812

RECEIVED

MAY 21 2008

Department of Water Resources
Eastern Region

Regulatory Division

SUBJECT: NWW No. 003201290

Mr. Gary Voerman
Aquatic Resources Program Manager
U.S. Environmental Protection Agency
1200 Sixth Avenue, ECO
Seattle, Washington 98101

Dear Mr. Voerman:

I am referring a violation of Section 404 of the Clean Water Act by Prime Properties of Jackson Hole, LLC (Prime Properties), to you for appropriate legal action pursuant to our 1989 Memorandum of Agreement. Enclosed is a copy of our file on our involvement with this case. We have reviewed this matter with Ms. Carla Fromm of your Idaho Operations Office in Boise and are also sending her a copy of our file.

We issued a Notice of Violation to Prime Properties on October 21, 2004 for the unauthorized discharge of rock fill material into Teton Creek to riprap the banks of the creek. We requested they send us information about the work as well as their plans for additional work in the creek. They did not respond to our letter or a follow-up letter on March 22, 2005. We called Mr. Marshall McInnis of Prime Properties on June 15, 2005 to obtain the information we requested. Mr. McInnis told us they performed the work in April and May 2004 and the primary contractor was Alta Construction. We are sending the contractor a Notice of Violation. Mr. McInnis said Prime Properties discharged the rock to eliminate the severe bank erosion caused by work previously done by an upstream property owner to streamline the channel. According to Mr. McInnis, they have no plans for additional work in the creek.

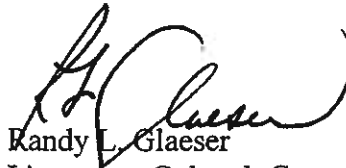
Prime Properties had documented knowledge of the Clean Water Act permitting requirements prior to conducting this unauthorized work. They applied for a Department of the Army permit for work in Teton Creek and adjacent wetlands and received a letter verifying the work was authorized by a nationwide permit in 2003. This nationwide permit authorization included special conditions requiring mitigation for project impacts. In 2004, we found Prime Properties had completed most of the work authorized by the nationwide permit and had begun selling lots, but had not begun to construct the required mitigation. We notified them in our NOV failure to comply with the conditions of their nationwide permit would represent another violation of the Clean Water Act and could result in legal action. To date, Prime Properties has not begun the required mitigation, but they have completed the authorized work. This

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non-compliance with their permit conditions represents an additional violation. We consider the discharge of rock without obtaining a permit and the non-compliance with permit conditions by Prime Properties to be a knowing and flagrant violation of the Clean Water Act.

Please contact Mr. Robert Brochu of my Idaho Falls Regulatory Office at 208-522-1645 with any questions you may have in this matter. A copy of this letter is being sent to Mr. Mark Melehes, President, Alta Construction, 470 West Alta Road, Driggs, Idaho 83422; Mr. Marshall McInnis, Prime Properties of Jackson Hole, LLC, P.O. Box 1170, Wilson, Wyoming 83014 and Ms. Carla Fromm, Environmental Protection Agency, Idaho Operations Office, 1435 North Orchard Street, Boise, Idaho 83706.

Sincerely,



Randy L. Glaeser
Lieutenant Colonel, Corps of Engineers
District Engineer

Enclosures

4th: Matt McMillan

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REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
WALLA WALLA DISTRICT, CORPS OF ENGINEERS
IDAHO FALLS REGULATORY OFFICE
900 NORTH SKYLINE DRIVE, SUITE A
IDAHO FALLS, IDAHO 83402-1718

February 3, 2003

RECEIVED

MAY 21 2003

Department of Water Resources
Eastern Region

Operations Division

SUBJECT: NWW No. 003201290

Mr. Bruce Simon
Prime Properties
P.O. Box 1170
Wilson, WY 83014

Dear Mr. Simon:

Your proposed discharge of fill material in Teton Creek and adjacent wetlands to construct a bridge, two road crossings, buried utility lines, and wetland pond construction for phase 2 of the Creekside Meadows Subdivision is authorized under the terms and conditions of Department of the Army Nationwide Permit (NWP) 12, 14, and 27 (33 CFR 330, Appendix A). This authorization requires that your project is constructed as shown on the drawings submitted to our office and complies with the enclosed nationwide permit and the special conditions listed below. Your project is located in Sec. 35, T.5N., R.45E., B.M., Teton County, ID.

a. In-water work shall be accomplished during periods of low or no flow to reduce turbidity. If project results in visible turbidity, sediment control devices shall be installed.

b. Remove equipment and machinery from the waterway, to an upland location prior to refueling, repair or maintenance.

c. Do not discharge temporary fills or stockpile dredged or fill material below the ordinary high water mark of Teton Creek or adjacent wetlands. Excess dredged or fill material must be spoiled in upland areas where it cannot reenter waters of the United States, including wetlands.

d. Clearing of mature woody vegetation in the riparian zone along Teton Creek and in wetlands adjacent to the creek will be kept to a minimum.

e. Pond/wetland creation that will serve as mitigation shall be accomplished as specified in your correspondence dated January 15, 2003, and according to drawings dated January 2003. Mitigation shall be accomplished concurrent with or prior to

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project construction.

f. The mitigation will be considered successful when the following has been accomplished: 80% cover and survival of vegetation for two consecutive growing seasons and the area meets wetland criteria as outlined in the 1987 Corps of Engineers Wetland Delineation Manual.

g. Permittee shall submit an annual wetland mitigation report to the Idaho Falls Regulatory office on/by October 31 of each year, for a minimum of 3 years following initial construction of the mitigation area. The report will describe completed mitigation measures. The report shall also include photographs from fixed reference points of the mitigation area to compare success from year to year. The report shall identify any failure of the mitigation and shall describe measures needed to bring the site into compliance with the mitigation plan.

Please carefully review these conditions, including the Water Quality Certification conditions. If you cannot meet these conditions, this NWP verification is not valid. Your project must comply with the Idaho Water Quality Standards as stated in IDAPA 58.01.02. If you have any questions about the Water Quality Certification conditions, please contact Mr. William Teuscher, at (208) 528-2650. If you change the project description in your permit application, these NWPs may not be valid and you should contact us before starting work. We have enclosed a Compliance Certification for you to sign and return when you have completed your project.

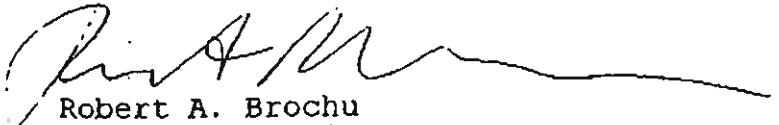
This verification is valid for 2 years from the date of this letter. If you start or are under contract to start this activity before this date, you will have an additional 12 months to complete the activity under the present terms and conditions of this NWP.

This authorization applies only to Department of the Army permits administered by the Corps of Engineers. Your project may also require permits from other Federal, state, and local agencies. If your work requires a permit from the Idaho Department of Water Resources, you will need to obtain their approval before starting work. You should also contact your local city or county zoning office for any permits they may require for your project.

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If you have any questions concerning this authorization or Corps jurisdiction, please feel free to contact James Joyner at 208-522-1676. A copy of this letter is being sent to Erv Ballou, Idaho Department of Water Resources, P.O. Box 83720, Boise, Idaho 83720-0098; Mr. Earle Layser, Land Management Services, Route 1, Box 3393, Alta, WY and; Mr. Jim Johnston, Regional Administrator, Idaho Department of Environmental Quality, 900 North Skyline, Suite B, Idaho Falls, Idaho 83402.

Sincerely,



Robert A. Brochu
Regulatory Project Manager

Enclosures

Attn — Marshall Mc Innis

From Earle Layser
2/11/03

[Close](#)

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IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Recommended Right Report

05/20/2008

RECEIVED

MAY 21 2008

Department of Water Resources
Eastern Region

WATER RIGHT NO. 22-500D

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	CREEKSIDE MEADOWS LLC PO BOX 1170 WILSON, WY 83014 (307)413-4447
Original Owner	KITCHENER EDWARD HEAD
Original Owner	SONJA OLSEN HEAD PO BOX 561 NOME, AK 99762 (907)443-5060

Priority Date: 06/01/1886

Basis: Decreed

Status: Active

<u>Source</u>	<u>Tributary</u>
SPRING CREEK	TETON CREEK

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	04/15	10/31	0.2 CFS	
Total Diversion			0.2 CFS	

Location of Point(s) of Diversion:

SPRING CREEK	SWSWSW	Sec. 36	Township 05N	Range 45E	TETON County
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Place(s) of use:

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Place of Use Legal Description: IRRIGATION TETON County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
05N	45E	35		SESE	10									

Total Acres: 10

Conditions of Approval:

1.	C18	This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.
2.		OLD WATER RIGHT NUMBER 22-00500A.

Dates:

Other Information:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

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ET *Idaho* --- Evapotranspiration and Consumptive Irrigation

Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly.uidaho.edu Copyright 2007, University of Idaho.

Driggs (NWS NOAA--102676)

Statistics based on 30 years between 1971 to 2004

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Grass Hay													
Precipitation Deficit (Click here for a graph)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a
Mean	mm/day												mm
Monthly ^b	0.03	0.05	0.24	0.46	2.15	5.37	6.03	4.68	2.35	0.23	-0.44	-0.35	627
15-Day Moving Average ^c	0.03	0.01	0.26	0.40	2.11	5.33	6.00	4.55	2.25	0.25	-0.42	-0.26	631
7-Day Moving Average ^d	0.04	0.03	0.24	0.40	2.14	5.33	6.02	4.64	2.31	0.23	-0.45	-0.29	
3-Day Moving Average ^e	0.03	0.05	0.23	0.43	2.14	5.37	6.02	4.67	2.34	0.22	-0.44	-0.34	
Standard Deviation	mm/day												mm
Monthly	0.34	0.28	0.29	0.44	1.89	1.24	1.51	0.95	1.02	1.03	0.53	0.60	105
15-Day Moving Average	0.31	0.35	0.30	0.54	1.70	1.72	1.29	1.20	1.38	0.90	0.70	0.49	105
7-Day Moving Average	0.46	0.58	0.52	0.85	2.20	2.26	1.80	1.66	1.93	1.35	0.97	0.74	
3-Day Moving Average	0.66	0.86	0.88	1.32	2.99	2.90	2.57	2.16	2.65	1.96	1.41	1.13	
20% Exceedance	mm/day												mm
Monthly	0.10	0.24	0.44	0.92	3.34	6.31	7.12	5.21	2.97	0.73	0.00	0.03	707
15-Day Moving Average	0.31	0.41	0.80	1.22	4.99	7.39	7.71	6.45	4.19	1.09	0.35	0.24	723
7-Day Moving Average	0.42	0.72	1.00	1.65	6.36	8.22	8.34	7.38	5.55	1.70	0.64	0.47	
3-Day Moving Average	0.57	0.91	1.36	2.25	7.82	9.07	8.96	8.02	6.17	3.25	0.92	0.63	
80% Exceedance	mm/day												mm

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Monthly	0.19	-0.15	0.05	0.13	0.77	4.33	5.24	3.94	1.40	0.26	-0.80	-0.66	501	537
15-Day Moving Average	0.79	-0.31	-0.21	-0.53	-0.50	2.79	3.59	2.78	0.02	1.38	-1.31	-1.35		
7-Day Moving Average	1.32	-0.76	-1.01	-1.52	-1.79	0.20	1.81	1.57	1.64	2.64	-2.76	-2.71		
3-Day Moving Average	2.54	-1.93	-2.87	-3.44	-6.25	-4.08	3.25	-1.64	6.27	5.14	-5.33	-5.23		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.19	0.31	0.59	0.93	3.42	6.59	7.05	5.75	3.51	1.04	0.22	0.15		
7-Day Moving Average ^g	0.36	0.63	0.86	1.44	4.90	7.65	7.75	6.81	4.76	1.58	0.52	0.34		
3-Day Moving Average ^h	0.51	0.82	1.20	2.11	6.46	8.57	8.45	7.56	5.63	2.23	0.78	0.52		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^f	0.28	-0.19	-0.06	-0.10	0.87	4.07	5.12	3.41	1.16	0.56	-0.90	-0.72		
7-Day Moving Average ^g	0.59	-0.63	-0.61	-0.85	-0.60	2.18	3.64	2.28	0.03	1.51	-1.72	-1.42		
3-Day Moving Average ^h	1.25	-1.53	-1.79	-2.39	-3.69	-0.59	0.35	0.25	2.77	3.84	-3.46	-2.86		
Special normal distribution parameters for monthly, seasonal, and annual intervals													--	
Skew	0.60	-3.03	0.07	1.05	0.08	-0.11	0.07	0.09	0.54	0.01	-0.83	-0.29	0.35	0.31
Kurtosis	1.24	14.04	0.59	3.95	0.68	2.81	0.60	0.57	2.75	1.09	4.08	0.76	2.52	2.64

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Mean of the average daily value for month

^c Mean of the fourteen 15-day period averages contained in the month

^d Mean of the twenty three 7-day period averages contained in the month

^e Mean of the twenty seven 3-day period averages contained in the month

^f Mean of the highest/lowest 15-day period average in month

^g Mean of the highest/lowest 7-day period average in month

^h Mean of the highest/lowest 3-day period average in month

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ET_{Idaho} --- Evapotranspiration and Consumptive Irrigation⁷⁴⁸¹²

Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly.uidaho.edu Copyright 2007, University of Idaho.

Driggs (NWS NOAA--102676)

Statistics based on 30 years between 1971 to 2004

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Open water - shallow systems (ponds, streams)													
Precipitation Deficit (Click here for a graph)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a
Mean	mm/day												mm
Monthly ^b	0.58	0.00	0.47	1.29	2.03	3.31	3.35	3.17	2.02	1.13	-0.07	-0.58	476
15-Day Moving Average ^c	0.61	-0.14	0.49	1.26	2.11	3.23	3.29	3.17	1.90	1.23	-0.04	-0.47	
7-Day Moving Average ^d	0.61	-0.08	0.46	1.25	2.05	3.22	3.30	3.18	1.96	1.17	-0.08	-0.51	
3-Day Moving Average ^e	0.58	-0.02	0.46	1.28	2.02	3.28	3.33	3.18	2.00	1.13	-0.07	-0.57	
Standard Deviation	mm/day												mm
Monthly	0.88	0.68	1.07	0.92	1.47	1.00	1.32	0.93	1.04	1.32	0.66	1.17	129
15-Day Moving Average	0.89	0.94	0.92	1.24	1.52	1.56	1.17	1.05	1.32	1.22	0.86	0.88	
7-Day Moving Average	1.17	1.28	1.23	1.74	2.21	2.10	1.67	1.41	1.81	1.65	1.17	1.18	
3-Day Moving Average	1.56	1.68	1.77	2.35	3.13	2.68	2.40	1.94	2.55	2.29	1.63	1.68	
20% Exceedance	mm/day												mm
Monthly	0.04	0.59	1.13	1.76	2.87	4.26	4.32	3.69	2.89	1.69	0.38	0.02	572
15-Day Moving Average	0.52	0.77	1.80	2.77	4.07	4.84	4.83	4.37	3.39	2.75	1.04	0.54	
7-Day Moving Average	0.72	1.38	2.23	3.75	5.04	5.51	5.16	4.89	4.16	3.27	1.62	0.77	
3-Day Moving Average	0.97	1.64	2.73	4.45	5.64	5.90	5.48	5.34	4.47	3.67	1.97	1.02	
80% Exceedance	mm/day												mm
	-												

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Monthly	1.33	-0.65	-0.28	0.44	0.88	2.55	2.59	2.36	0.99	0.48	-0.64	-1.06	362	362
15-Day Moving Average	2.24	-1.39	-1.02	-0.76	-0.20	0.76	1.54	1.26	0.19	0.56	-1.44	-1.73		
7-Day Moving Average	3.46	-2.91	-2.98	-3.03	-3.46	-1.87	0.60	-0.54	2.52	2.18	-2.63	-2.80		
3-Day Moving Average	5.63	-5.28	-5.70	-5.47	-8.19	-6.80	5.30	-3.82	6.85	4.64	-5.29	-5.60		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.24	0.55	1.22	2.30	3.38	4.35	4.28	3.95	2.75	2.14	0.68	0.26		
7-Day Moving Average ^g	0.60	1.13	1.73	3.15	4.52	5.11	4.82	4.52	3.66	2.80	1.14	0.55		
3-Day Moving Average ^h	0.84	1.44	2.25	3.83	5.17	5.62	5.22	4.92	4.13	3.22	1.60	0.85		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^f	1.33	-0.53	-0.15	0.31	0.84	2.16	2.51	2.29	1.09	0.23	-0.67	-1.19		
7-Day Moving Average ^g	2.27	-1.48	-1.28	-1.21	-1.18	0.19	1.12	1.14	0.28	1.01	-1.64	-2.23		
3-Day Moving Average ^h	3.80	-3.09	-3.09	-3.71	-4.88	-2.49	2.07	-1.15	3.34	3.53	-3.52	-4.14		
Special normal distribution parameters for monthly, seasonal, and annual intervals													--	
Skew	0.09	-0.69	-0.24	0.52	-0.18	-0.19	0.04	-0.08	0.23	0.24	-0.10	-0.83	-0.25	-0.25
Kurtosis	0.52	2.68	0.64	3.08	0.57	2.41	0.55	0.58	2.26	1.00	3.86	2.76	2.82	2.82

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Mean of the average daily value for month

^c Mean of the fourteen 15-day period averages contained in the month

^d Mean of the twenty three 7-day period averages contained in the month

^e Mean of the twenty seven 3-day period averages contained in the month

^f Mean of the highest/lowest 15-day period average in month

^g Mean of the highest/lowest 7-day period average in month

^h Mean of the highest/lowest 3-day period average in month

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