

Van Dyke, Nick

From: Peppersack, Jeff
Sent: Friday, January 13, 2012 5:17 PM
To: Skaggs, Pam; Van Dyke, Nick; Van Bussum, Monica; Weaver, Mathew; Saxton, Craig
Subject: FW: Lance Funk Permit
Attachments: 600DOC004.PDF

From: Greg Sullivan [<mailto:greg.sullivan@brockwayeng.com>]
Sent: Friday, January 13, 2012 4:10 PM
To: Peppersack, Jeff
Cc: Charles E. Brockway
Subject: Lance Funk Permit

Jeff,

I have attached one Application for Permit and a letter detailing the purpose and the analysis for the permit. Please review and respond. Thank you.

Greg Sullivan
Brockway Engineering
2016 North Washington Street, Suite 4
Twin Falls, ID 83301
Office: 208-736-8543
Fax: 208-736-8506

January 13, 2012

Jeff Peppersack
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Re: Lance Funk Permit

Dear Mr. Peppersack:

On behalf of our client, Lance Funk, I have prepared a new Permit Application and ESPA model analysis based on the discussion that we had at the meeting at the Boise IDWR office on January 5, 2012. I am sending this application and model analysis to you for your review since you concurred with the approach we are proposing. I feel that before the application is officially submitted to the Eastern IDWR office that it would be of benefit to confirm our analysis with you.

It was decided that due to the geographical location of the proposed land to be irrigated that three new permits with mitigation will be required. I have prepared only one permit for your review at this time to ascertain the adequacy of the approach.

It was decided that Lance Funk would apply for a new permit for irrigation use from ground water. The new permit would be mitigated by the non-use of water rights 35-14014 and 35-14015. Water rights 35-14014 and 35-14015 are industrial water rights that are valid for 8.5 cfs and 5070 afa. These water rights were involved in transfer 75147. Transfer 75147 moved 8.5 cfs and 5070 afa from FMC to SIE. The volume of these water rights was reduced in transfer 75147 from 6153.8 afa. The historical place of use was the old FMC fertilizer plant in Pocatello. The point of diversion for FMC is located in ESPA model cell 950118. The ESPA model analysis for Transfer 75147 combined the river reaches Near Blackfoot to Neeley and Neeley to Minidoka. This modeling analysis was accepted by IDWR. After the transfer was approved, both water rights were leased to the Water Supply Bank for an indefinite period and have not been used at the SIE property.

It was decided at the meeting that it would be acceptable to use the 6153.8 afa of industrial water right as mitigation from the FMC plant because this is the

latest historical location of use under water rights 35-14014 and 35-14015. The 6153.8 afa is considered 100% consumptive.

The new permit would have three POD locations with existing wells at Township 7 South Range 29 East Section 8 SWNESW (ESPA Model cell 86091), Township 7 South Range 28 East Section 1 SWSWSE (ESPA Model cell 84090) and Township 7 South Range 29 East Section 07 NENENW (ESPA Model cell 85091). The ESPA Model analyses was performed based on consumptive use of the irrigation water and net depletion of the aquifer. A value of 2.73 feet per acre for frequent cuttings of alfalfa at the American Falls 1 SW field station (Robinson and Allen, 2010) was used to estimate the proposed consumptive use of future crops to be irrigated. By doing this, the model analysis compares consumptive use volume of the mitigation water to consumptive use volume of the irrigation water. The aquifer will experience the same consumptive use withdrawal from irrigation use as the aquifer has historically experienced from industrial use because any excess pumping larger than the crop consumptive use returns to the aquifer.

The ESPA model analysis indicates that no mitigation would be required for steady state pumping. The transient state analysis indicates that mitigation would be required. However, based on the "Mitigation Analysis 6-7-11 power point presentation" provided by IDWR, I believe that this model analysis fits the "2 Part Test Caveat". It is stated that "Mitigation during the transient state is not required, if mitigation is not required at steady state (last time step), and steady state depletions are greater than at any time during the transient state." The calculated affects of the model analysis show that the steady state values of depletion at the last time step are equal to the transient state maximum values of depletion after the transfer. Therefore, no mitigation is required for the transient state affects of this new permit.

The new permits will be mitigated by the non-use of 35-14014 and 35-14015 that have priority dates of 3/2/1949 and 4/24/1951. The permits should be allowed to be utilized as long as the mitigation rights are not curtailed. If the 35-14014 and 35-14015 are curtailed, then pumping under the permit would stop. If water rights 35-14014 and 35-14015 are removed from mitigation it will be required to stop pumping of the permit or obtain another source of sufficient mitigation water to continue pumping.

Sincerely,

Greg Sullivan, M.S., E.I.T.

Cc:

Enc: Permit Application, ESPA Model Analysis, Well Logs

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

Ident. No. _____

1. Name of applicant(s) Lance and/or Diana Funk Phone 208-226-9976
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address: 2960 Cedar LN City American Falls
 State Idaho Zip 83211 Email: _____

2. Source of water supply Ground Water which is a tributary of _____

3. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
07S	29E	08		SW	NE	SW	Power County	Ground Water	
07S	28E	1		SW	SW	SE	Power County	Ground Water	
07S	29E	7		NE	NE	NW	Power County	Ground Water	

4. Water will be used for the following purposes:

Amount 13.1/2625 for Irrigation purposes from 4/01 to 10/31 (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

5. Total quantity to be appropriated is (a) 13.1 cubic feet per second (cfs) and/or (b) 2625 acre-feet per year (af).

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. Existing wells, mainlines and irrigation systems
Two of the existing wells have well logs and the third well has no well log on record.

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11.

For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ No

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☐ No

e. If well is already drilled, when? _____; drilling firm see attached well logs;
 Well was drilled for (well owner) see attached well logs; Drilling Permit No. see attached well logs.

7. Description of proposed uses (if irrigation only, go to item 8):

a. Hydropower; show total feet of head and proposed capacity in kW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; show name of municipality or the applicant's qualifications as a municipal provider. _____

d. Domestic; show number of households _____

e. Other; describe fully. _____

8. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	28E	12	30.5	30.5	30.5	30.5	31.9	14.8											168.7
07S	29E	6	22.1	20.4	32.1	33.2	26.4	15.6	24.6	37.3	32.2	19.9	21.5	33.2	27.9	21.6			368
		7													30.3	30.8	29.4	29	119.5

Total number of acres to be irrigated: 656.2

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? 35-7973 and 35-7914

10. a. Who owns the property at the point of diversion? Lance Funk
- b. Who owns the land to be irrigated or place of use? Lance Funk
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. Provide necessary water to irrigable land. Wells, mainlines and pivots are already constructed and installed. Mitigation for this permit will be provided by water right 35-14014 and 35-14015. This permit will have a 2012 priority date, but will be allowed to be pumped as long as the mitigation water rights are not curtailed by IDWR. In the event that water rights 35-14014 and 35-14015 are curtailed, all pumping under this permit will stop. If 35-14014 and 35-14015 are removed from mitigation, all pumping under this permit will stop.

12. Time required for completion of works and application of water to proposed beneficial use is 1 years (minimum 1 year).
13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

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 rejection of the application or cancellation of an approval.

Signature of Applicant

Signature of Applicant

Print Name (and title, if applicable)

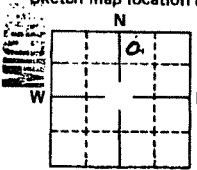
Print Name (and title, if applicable)

For Department Use:

Received by _____ Date _____ Time _____ Preliminary check by _____
Fee \$ _____ Receipted by _____ Receipt No. _____ Date _____

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Callen Phillips</u> Address <u>750 W 300 N Paul Idaho</u> Owner's Permit No. <u>35-7914</u> <u>14999</u>	7. WATER LEVEL Static water level <u>403</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☒ Cap ☐ Plug Temperature _____ °F. Quality <u>good</u>																																																																																																																																														
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☒ Bailer ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr><tr><td></td><td><u>62.5 cc recovery</u></td><td><u>pm 1:50 to 1:55</u></td></tr><tr><td></td><td><u>bailer displacement</u></td><td><u>check</u></td></tr></table>	Discharge G.P.M.	Pumping Level	Hours Pumped		<u>62.5 cc recovery</u>	<u>pm 1:50 to 1:55</u>		<u>bailer displacement</u>	<u>check</u>																																																																																																																																					
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 86137 <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>24</td><td>0</td><td>7</td><td>Overburden</td><td></td><td>X</td></tr><tr><td>24</td><td>7</td><td>18</td><td>Firm grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>19</td><td>33</td><td>" "</td><td></td><td>X</td></tr><tr><td>20</td><td>33</td><td>146</td><td>Red cinders & broken grey basalt boulders very cavity</td><td></td><td>X</td></tr><tr><td>20</td><td>146</td><td>178</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>178</td><td>182</td><td>Large grey basalt boulders</td><td></td><td>X</td></tr><tr><td>20</td><td>182</td><td>203</td><td>& some red cinders cavity</td><td></td><td>X</td></tr><tr><td>20</td><td>203</td><td>208</td><td>Broken grey basalt & red cinders</td><td></td><td>X</td></tr><tr><td>20</td><td>208</td><td>257</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>257</td><td>284</td><td>Broken grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>284</td><td>325</td><td>Broken burnt grey basalt & some red cinders</td><td></td><td>X</td></tr><tr><td>20</td><td>325</td><td>355</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>355</td><td>360</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>360</td><td>367</td><td>Broken grey basalt & brown clay</td><td></td><td>X</td></tr><tr><td>20</td><td>367</td><td>372</td><td>Broken grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>372</td><td>399</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>399</td><td>406</td><td>Brown silty sediment</td><td></td><td>X</td></tr><tr><td>20</td><td>406</td><td>426</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>426</td><td>442</td><td>Broken burnt grey basalt</td><td></td><td>X</td></tr><tr><td>20</td><td>442</td><td>478</td><td>Brown sticky clay</td><td></td><td>X</td></tr><tr><td>16</td><td>478</td><td>500</td><td>Grey basalt</td><td></td><td>X</td></tr><tr><td>16</td><td>500</td><td>511</td><td>Loose all cuttings</td><td></td><td>X</td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	24	0	7	Overburden		X	24	7	18	Firm grey basalt		X	20	19	33	" "		X	20	33	146	Red cinders & broken grey basalt boulders very cavity		X	20	146	178	Grey basalt		X	20	178	182	Large grey basalt boulders		X	20	182	203	& some red cinders cavity		X	20	203	208	Broken grey basalt & red cinders		X	20	208	257	Grey basalt		X	20	257	284	Broken grey basalt		X	20	284	325	Broken burnt grey basalt & some red cinders		X	20	325	355	Grey basalt		X	20	355	360	Grey basalt		X	20	360	367	Broken grey basalt & brown clay		X	20	367	372	Broken grey basalt		X	20	372	399	Grey basalt		X	20	399	406	Brown silty sediment		X	20	406	426	Grey basalt		X	20	426	442	Broken burnt grey basalt		X	20	442	478	Brown sticky clay		X	16	478	500	Grey basalt		X	16	500	511	Loose all cuttings		X
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____	10. RECEIVED JUL 2 1981 MAY 20 1981 Department of Water Resources Eastern District Office																																																																																																																																														
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>3/8</u> inches</td><td><u>20</u> inches</td><td><u>1</u> feet</td><td><u>19</u> feet</td></tr><tr><td><u>3/16</u> inches</td><td><u>16</u> inches</td><td><u>356</u> feet</td><td><u>486</u> feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No on Liner Was a packer or seal used? ☒ Yes ☐ No on Surface Pipe Perforated? ☒ Yes ☐ No on 16" Liner How perforated? ☒ Factory ☐ Knife ☐ Torch Size of perforation <u>3"</u> inches by <u>1/8"</u> inches <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>360</u> perforations</td><td><u>436</u> feet</td><td><u>456</u> feet</td></tr><tr><td><u>180</u> perforations</td><td><u>416</u> feet</td><td><u>426</u> feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>19'</u> Material used in seal: ☒ Cement grout ☒ Well cuttings ☒ Puddling clay ☐ Overbore to seal depth Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>18" of 2" pipe 0-18"</u>	Thickness	Diameter	From	To	<u>3/8</u> inches	<u>20</u> inches	<u>1</u> feet	<u>19</u> feet	<u>3/16</u> inches	<u>16</u> inches	<u>356</u> feet	<u>486</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	<u>360</u> perforations	<u>436</u> feet	<u>456</u> feet	<u>180</u> perforations	<u>416</u> feet	<u>426</u> feet	_____ perforations	_____ feet	_____ feet																																																																																																															
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6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Power</u> <u>NW</u> 1/4 <u>NE</u> 1/4 Sec. <u>7</u> , T. <u>2S</u> , R. <u>29E</u> E/W.	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Stresser Drilling</u> Firm No. <u>90</u> Address <u>P.O. 155 Rupert Idaho</u> Date <u>5/17/81</u> Signed by (Firm Official) <u>Wm Tunnichoff</u> and (Operator) <u>Wm Tunnichoff</u>																																																																																																																																														

Trimester	

Trimester	1	2	Trimester)
Annual			AF/T:

One-Way Analysis of Independent Transfers

Transfer 1:

New Permit for 658.2 acres

WR No.	CFS (Days)	Can. Vol. (AF/A)	No. of Irr. Acres	Priority Date	POD Location	Dedicated Vol. AF/A / AFT	Model Node
Transfer 1: Proposed Steady State Impacts following Transfer							
	0.75		50.2	12/15/1977		1053.8	561.3
	0.75		50.2	12/15/1977		1053.8	561.3
Transfer: Worst Case Transient State Impacts following Transfer							
	0.75		50.2	12/15/1977		1053.8	561.3
	0.75		50.2	12/15/1977		1053.8	561.3

100.0%	Consumptive Use Mitigation Amount	1653.8 AFA	
100.0%	Consumptive Use Amount for Permit	1791.4 AFA	858.2 Acres

Impact by Reach (AE/Tolerances)

Impact by Reach (A/T/T/semester)											
	Ashton to Reynolds	Reynolds to Shawley	Shawley to Nir Black	Nir Black to Neesley	Neesley to Mindokus	Dev. Wbl. To Buhi	Buhi to 1000 Spr	1000 Spr	1000 Spr to Maled	Maled	Maled to Bancroft
1983	10.84	12.74	112.18	402.31	6.96	2.80	1.70	0.19	1.61	0.06	
	8.20	9.99	79.13	440.41	30.53	11.77	7.46	0.82	7.07	0.27	
1983	10.84	12.74	112.18	402.31	6.96	2.80	1.70	0.19	1.61	0.06	
	8.20	9.99	79.13	440.41	30.53	11.77	7.46	0.82	7.07	0.27	

Steady State Analysis

Mitigation Check 1 - >10% of Historical:	-22.8%	-23.9%	-20.4%	9.5%	338.36%	338.3%	338.3%	338.2%	338.2%	337.4%
Mitigation Check 2 - > 2 AFT:	-2.4	3.0	-33.0	38.1	23.586	9.1	5.8	0.0	5.5	0.2
Mitigation Check 3 - >10% of Total:	-1.4	-1.8%	13.3%	74.0%	5.1%	2.0%	1.3%	0.1%	1.2%	0.0
Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft):	-2.4	-3.0	-33.0	38.1	23.6	9.1	5.8	0.6	5.5	0.2

Transient State Analysis

Mitigation Check 1: >10% of Historical	-22.9%	-23.9%	-29.4%	9.5%	336.36%	336.3%	336.3%	336.2%	336.2%	337.4%
Mitigation Check 2: > 2 APT:	-2.4	-3.0	-33.0	38.1	23.8	8.1	5.8	0.6	5.3	0.2
Mitigation Required?	NO	NO	NO	NO	YES	YES	YES	NO	YES	NO
Mitigation Val. Req'd (ac-ft)	-2.4	-3.0	-33.0	38.1	23.8	8.1	5.8	0.6	5.3	0.2

Read Me

Transfer 2 :

WR No.	Dir. Rate (GFS)	Con. Vol. (AFA)	No. of Ir. Arms	Priority Date	POD Location	Dedicated Vol. AFA/ AFT	Model Node
Transfer: Proposed Steady State Impacts following Transfer							
Transfer 1: Worst Case Transient State Impacts following Transfer							

Impact by Reach (AF/Trimester)

[illegible]

Steady State Analysis

Mitigation Check 1 - >10% of Historical:	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Check 2 - > 2 AFT:	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mitigation Check 3 - >10% of Total:	0.0	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Required?	NO	NO	NO		NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0

Transient State Analysis

[illegible]

Transfer 3 :

WR No.	Div Rate (CFS)	Con. Vol. (AF/A)	No. of Irr. Acres	Priority Date	POD Location	Dedicated Vol. AF/A/ AFT	Model Node
Transfer: Proposed Steady State Impacts following Transfer							
Transfer: Worst Case Transient State Impacts following Transfer							

Impact by Reach (AF/Trimester)

Ashdon to Reubing	Hesse to Shelley	Shelley to Nr Bluff	Nr Bluff to Nealey	Nealey to Minicko	Dev. Wbl. To Buhi	Buhi to 1000 Spr	1000 Spr	1000 Spr to Maled	Maled	Maled to Bancroft
0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00

Steady State Analysis

[illegible]

Transient State Analysis

Mitigation Check 1 - >10% of Historical:	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Mitigation Check 2 - > 2A&F/EI:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mitigation Required?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Mitigation Vol. Req'd (ac-ft)	0.0	0.0	Vol.	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Evaluation of overall mitigation requirements per reach Steady State and Transient State, and Off-Setting Benefits (Sum of reach debits only where mitigation is required and credits)

Carry out one way analysis. If reach depletions go up, it is a debit, if they go down, it is a credit. Sum all debits, only where mitigation is required (dark yellow), and all credits (light yellow). Mitigation is required for the full amount of the summed values if greater than zero.

Steady state analysis represents permanent mitigation requirements at future steady state (or last timestep from the ESPAM Transfer Tool model run).

Transient state analysis represents mitigation requirements for the worst or maximum time step in the model run.

Steady State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Ashton to Rexburg	Heise to Shelley	Shelley to Nr Bickft	Nr Bickft To Neeley	Neeley to Minidoka	Dev. Wbl. To Buhl	Buhl to 1000 Spr	1000 Spr to 1000 Spr Ic	Maled	Maled to Bancroft		
1	-2.4	-3.0	-33.0	38.1	23.8	9.1	5.8	0.6	5.5	0.2	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Summary:	-2.4	-3.0	-33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Evaluation of transient state mitigation requirement is not comprehensive across all time steps. Instead this evaluation finds the maximum stream depletion following the start of the transfer and looks at depletion amounts from that time step. In many instances this depletion is greater than the depletion associated with the steady state condition or final time step. This evaluation is merely an indicator of whether transient depletions must be considered, not an indicator of all transient impacts.

Transient State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Ashton to Rexburg	Heise to Shelley	Shelley to Nr Bickft	Nr Bickft To Neeley	Neeley to Minidoka	Dev. Wbl. To Buhl	Buhl to 1000 Spr	1000 Spr to 1000 Spr Ic	Maled	Maled to Bancroft		
1	-2.4	-3.0	-33.0	38.1	23.8	9.1	5.8	0.6	5.5	0.2	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Summary:	-2.4	-3.0	-33.0	38.1	0.0	23.8	9.1	5.8	0.6	5.5	0.2

Evaluation of Permanent Mitigation Efforts (non-use, acreage consolidation), in Addition to Off-Setting Transfer Benefits - Steady State Evaluation Only

Set Aside 1 (Non-Use/Desiccation):

WR No.	Div. Rate (GFS)	Con. Vol. (AFA)	No. of Irr. Acres	Priority Date	POD Location	Dedicated Vol. AFA/ AFT	Model Node
Non-Use: Proposed Steady State Impacts following Change							
Non-Use 1: Worst Case Transient State Impacts following Change							

Impact by Reach (AF/Trimester)											
Ashton to Rexburg	Heise to Shelley	Shelley to Nr Bickft	Nr Bickft To Neeley	Neeley to Minidoka	Dev. Wbl. To Buhl	Buhl to 1000 Spr	1000 Spr to 1000 Spr Ic	Maled	Maled to Bancroft		
Pre-SS											
Post-SS											
Pre-TS											
Post-TS											
SS Reach Impacts:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TS Reach Impacts:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Re-evaluation of overall mitigation requirements per reach, Steady State Only (Sum of reach debits only where mitigation is required and credits)

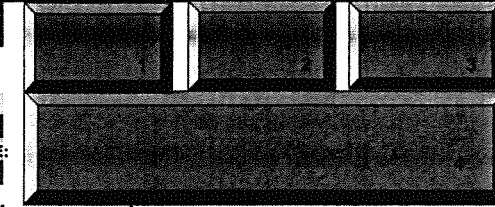
Steady State Summary of Modified Stream Depletions Following Transfer(s)											
Impact by Reach (AF/Trimester)											
Ashton to Rexburg	Heise to Shelley	Shelley to Nr Bickft	Nr Bickft To Neeley	Neeley to Minidoka	Dev. Wbl. To Buhl	Buhl to 1000 Spr	1000 Spr to 1000 Spr Ic	Maled	Maled to Bancroft		
Total 1-Way Transfer Depletions:	-2.4	-3.0	-33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Mitigation Efforts:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	-2.4	-3.0	-33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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Mitigation

605.8 Acres

1653.83 AFA

ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR: 1949
SEASON: SPRING

TRANSFER NAME:

ENTER CELL LOCATIONS:

	'TO' CELL	'FROM1' CELL	'FROM2' CELL	'FROM3' CELL
ROW	86	84	85	95
COLUMN	91	90	91	118

Permit

119.5 Acres

168.7 Acres

368.0 Acres

478.00 AFA

674.80 AFA

1472.00 AFA

326.24 AFA

460.55 AFA

1004.64 AFA

TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 1949	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1949	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1949	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1950	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1950	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1950	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1951	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1951	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1951	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1952	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1952	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1952	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1953	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1953	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1953	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1954	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1954	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1954	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1955	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1955	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1955	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1956	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1956	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1956	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1957	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1957	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1957	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1958	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1958	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1958	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1959	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1959	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1959	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1960	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1960	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1960	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1961	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1961	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1961	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1962	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1962	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1962	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1963	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1963	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1963	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1964	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1964	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1964	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1965	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1965	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1965	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1966	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1966	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1966	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1967	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1967	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1967	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1968	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1968	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1968	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1969	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1969	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1969	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1970	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1970	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1970	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1971	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1971	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1971	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1972	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1972	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1972	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1973	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1973	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1973	0.0	0.0	0.0	0.0	0.0	551.3	551.3

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IDAHO DEPARTMENT OF AGRICULTURE

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ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR:

1949

TRANSFER NAME:

SEASON:

SPRING

Mitigation

605.8 Acres

1653.83 AFA

ENTER CELL LOCATIONS:

	TO CELL	FROM1 CELL	FROM2 CELL	FROM3 CELL
ROW	86	84	85	95
COLUMN	91	90	91	118

119.5 Acres

Permit

168.7 Acres

674.80 AFA

1472.00 AFA

326.24 AFA

460.55 AFA

1004.64 AFA

TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 1974	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1974	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1974	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1975	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1975	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1975	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1976	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1976	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1976	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1977	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1977	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1977	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1978	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1978	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1978	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1979	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1979	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1979	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1980	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1980	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1980	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1981	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1981	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1981	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1982	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1982	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1982	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1983	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1983	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1983	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1984	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1984	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1984	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1985	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1985	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1985	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1986	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1986	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1986	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1987	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1987	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1987	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1988	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1988	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1988	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1989	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1989	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1989	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1990	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1990	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1990	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1991	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1991	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1991	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1992	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1992	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1992	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1993	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1993	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1993	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1994	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1994	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1994	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1995	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1995	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1995	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1996	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1996	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1996	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1997	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1997	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1997	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 1998	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1998	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1998	0.0	0.0	0.0	0.0	0.0	551.3	551.3

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPARTMENT OF AGRICULTURE

Cells this color are
set up for user entries

ENTER STARTING DATE FOR
SIMULATION. THEN PUSH

"UPDATE DATES" BUTTON

YEAR

1949

TRANSFER NAME:

SEASON

SPRING

Mitigation

605.8 Acres

1653.83 AFA

ENTER CELL LOCATIONS:

ROW
COLUMN

'TO' CELL
86
91

'FROM1' CELL
84
90

'FROM2' CELL
85
91

'FROM3' CELL
95
118

119.5 Acres
478.00 AFA

Permit
168.7 Acres
674.80 AFA

368.0 Acres
1472.00 AFA

TRIMESTER
OF
ACTIVITY

TO WELL
Projected Use
AF/TRIMESTER

FROM1 WELL
With Transfer
AF/TRIMESTER

Without Transfer
AF/TRIMESTER

FROM2 WELL
With Transfer
AF/TRIMESTER

Without Transfer
AF/TRIMESTER

FROM3 WELL
With Transfer
AF/TRIMESTER

Without Transfer
AF/TRIMESTER

SPR 1999	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 1999	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 1999	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 2000	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 2000	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 2000	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 2001	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 2001	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 2001	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 2002	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 2002	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 2002	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 2003	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 2003	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 2003	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 2004	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 2004	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
WIN 2004	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SPR 2005	0.0	0.0	0.0	0.0	0.0	0.0	551.3	551.3
SUM 2005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SUM 2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SUM 2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SUM 2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SUM 2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SUM 2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SUM 2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
WIN 2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	551.3
SPR 2012	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2012	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2012	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2013	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2013	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2013	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2014	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2014	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2014	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2015	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2015	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2015	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2016	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2016	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2016	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2017	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2017	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2017	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2018	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2018	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2018	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2019	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2019	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2019	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2020	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2020	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2020	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2021	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2021	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2021	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2022	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2022	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2022	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SPR 2023	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
SUM 2023	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3
WIN 2023	108.7	153.5	0.0	334.9	0.0	0.0	0.0	551.3

ENHANCED GROUND-WATER RIGHTS TRANSFER

UNIVERSITY OF IDAHO - IDAHO WATER RESOURCES RESEARCH INSTITUTE

IDAHO DEPARTMENT OF AGRICULTURE

Cells this color are set up for user entries

ENTER STARTING DATE FOR SIMULATION. THEN PUSH "UPDATE DATES" BUTTON

TRANSFER NO:

YEAR: 1949
SEASON: SPRING

TRANSFER NAME:

Mitigation

605.8 Acres
1653.83 AFA

ENTER CELL LOCATIONS:

	TO CELL	FROM1 CELL	FROM2 CELL	FROM3 CELL
ROW	86	84	85	95
COLUMN	91	90	91	118

Permit
119.5 Acres 168.7 Acres 368.0 Acres
478.00 AFA 674.80 AFA 1472.00 AFA
326.24 AFA 460.55 AFA 1004.64 AFA

TRIMESTER OF ACTIVITY	TO WELL Projected Use AF/TRIMESTER	FROM1 WELL		FROM2 WELL		FROM3 WELL	
		With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER	With Transfer AF/TRIMESTER	Without Transfer AF/TRIMESTER
SPR 2024	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2024	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2024	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2025	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2025	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2025	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2026	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2026	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2026	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2027	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2027	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2027	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2028	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2028	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2028	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2029	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2029	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2029	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2030	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2030	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2030	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2031	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2031	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2031	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2032	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2032	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2032	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2033	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2033	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2033	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2034	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2034	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2034	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2035	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2035	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2035	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2036	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2036	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2036	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2037	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2037	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2037	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2038	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2038	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2038	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2039	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2039	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2039	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2040	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2040	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2040	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2041	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2041	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2041	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2042	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2042	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2042	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2043	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2043	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2043	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2044	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2044	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2044	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2045	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2045	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2045	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2046	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2046	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2046	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SPR 2047	108.7	153.5	0.0	334.9	0.0	0.0	551.3
SUM 2047	108.7	153.5	0.0	334.9	0.0	0.0	551.3
WIN 2047	108.7	153.5	0.0	334.9	0.0	0.0	551.3