

RECEIVED

MAR 28 2017

DEPT OF WATER RESOURCES
SOUTHERN REGION

via E-mail

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Fee is \$100 per § 42-221C, Idaho Code

Applicant(s) Animal Shelter of Wood River Valley Inc. Phone 208-788-4351Name connector (check one) ☐ and ☐ or ☐ and/orMailing address P.O. Box 1496 City HaileyState ID Zip 83333 Email: _____I am the owner of Water Appropriation Permit No. 37-22436 and request that the permit be amended as follows:

- ☒ Change point of diversion ☐ Add point of diversion ☐ Change period of use
☒ Change nature of use ☐ Change place of use ☐ Other _____

1. Point of diversion: ☐ No changes to point(s) of diversion. Skip item #1 and proceed to #2.
☐ Attach Eastern Snake Plain Aquifer analysis if this proposes to change a point of diversion affecting the ESPA.

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
2N	18E	17			NW	NE	BLAINE	GROUND WATER	DOMESTIC WELL #1
2N	18E	17			NW	NE	BLAINE	GROUND WATER	DOMESTIC WELL #2

2. Period and nature of use: ☐ No changes to period and/or nature of use. Skip item #2 and proceed to #3.

Amount 0.64 / for COMMERCIAL purposes from 01/01 to 12/31 (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)

3. Place of use or land to be irrigated: ☐ No changes to place of use. Skip item #3 and proceed to #4.

Twp	Rge	Sec	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	18E	17		C	C														

Total number of acres to be irrigated _____

AMENDED

4. Property ownership: ☐ No changes to point of diversion and/or place of use. Skip item #4 and proceed to #5.

a. Who owns the property at the point of diversion? Applicant

b. Who owns the land to be irrigated or place of use? Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:
N/A.

5. Describe the proposed change in narrative form:

Applicant seeks to change the nature of use associated with 37-22436 to commercial use for a proposed facility that will be constructed in 2017. Applicant also seeks to change the point of diversion location associated with one of the two wells associated with 37-22436.

6. Map: ☐ The point(s) of diversion and/or the place of use are not amended, therefore a map is not attached.

Attach a map showing the proposed point(s) of diversion and/or place(s) of use. Clearly label the map with township, range, section, and $\frac{1}{4}$ of section information. A photocopy of a USGS 7.5 minute topographic quadrangle is commonly used, or the *Map Tool* available on the Department website provides a satisfactory template for creating the required map (<http://maps.idwr.idaho.gov/TransferApplicationLayouts/Map>).

7. Signature:

The information in this application is true to the best of my knowledge. I understand that any willful misrepresentations in this application may result in rejection of the application or cancellation of an approval.



Signature of applicant or authorized agent

Drake Tanner
Associate Director

Print name (and title, if applicable)

3/28/17

Date

Signature of applicant or authorized agent

Print name (and title, if applicable)

Date

FOR DEPARTMENT USE ONLY

Received by WM

Date 3/28/2017

Received by DM

Date 2-27-2017

Receipt No. 5035968

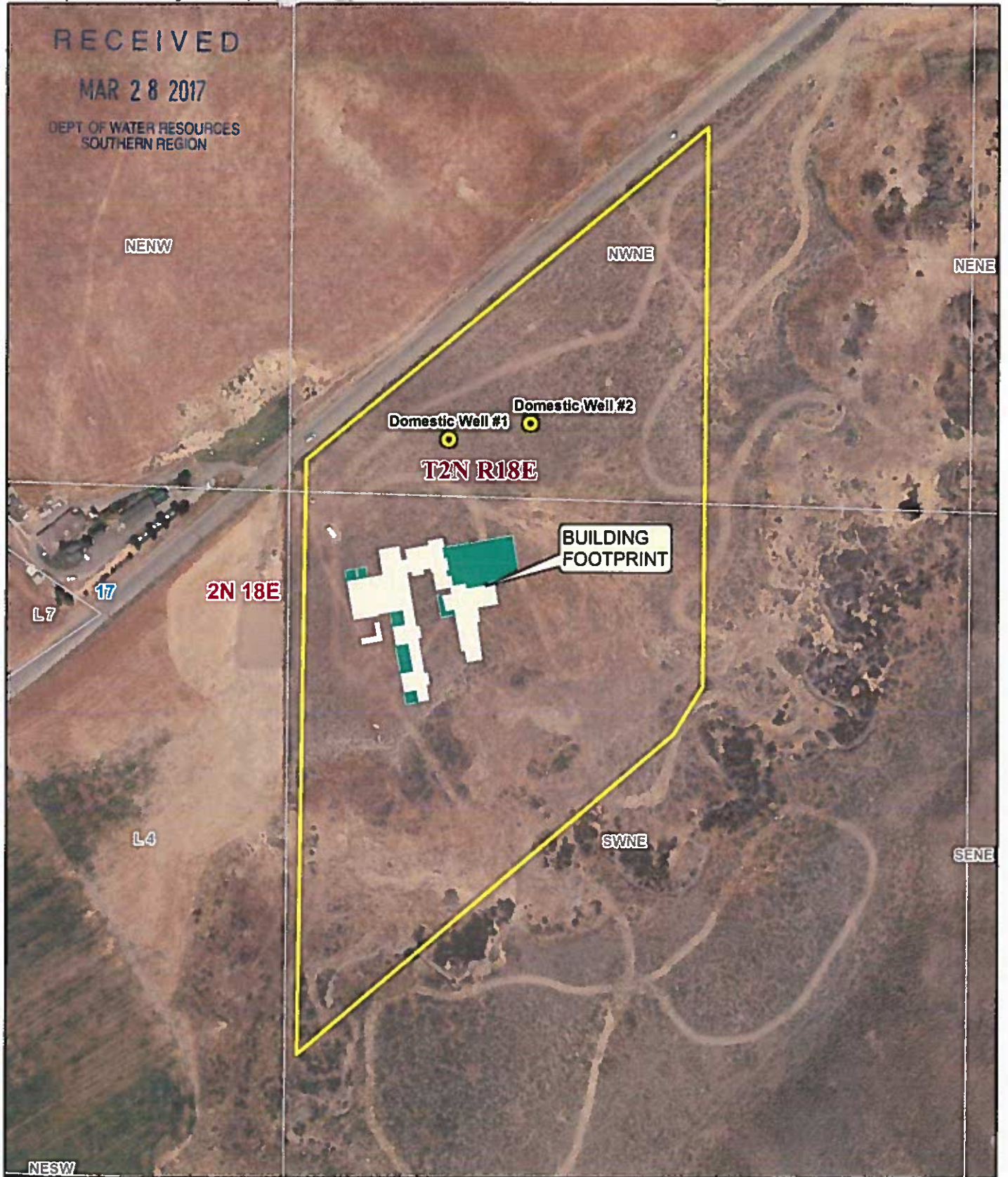
Reviewed by _____

Date _____

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DEPT OF WATER RESOURCES
SOUTHERN REGION



0 75 150 300 Feet

ANIMAL SHELTER OF WOOD RIVER VALLEY

AMENDED PERMIT AMENDMENT 37-22436

NAIP 2015 AERIAL

BROCKWAY ENGINEERING, PLLC.
ICB - Date: 3/8/2017

AMENDED MAP 37-22436

● POD - New well

□ POU 37-22436





Heating & Cooling

Water Source Heat Pump

- Packaged refrigeration system with all refrigeration specialties for stand-alone operation
- 1/2" diameter 0.016" thick copper tubes with 0.0060" thick fin evaporator coil
- 3/8" diameter 0.016" thick copper tubes with 0.0060" thick fin condensing and HGRH coils
- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	2,915	
Coil EAT (db/wb)	[f]	77.3	58.4
Coil LAT (db/wb)	[f]	48.9	46.6
Unit LAT (db/wb)	[f]	66.4	55.2
Total Capacity	[mbh]	89.4	
Sensible Capacity	[mbh]	89.4	
HGRH Capacity	[mbh]	46.6	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		Mod.	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	12.1	-
EWT	[f]	50.0	-
LWT	[f]	59.7	-

HEATING PERFORMANCE			
Coil EAT	[f]	59.1	
Unit LAT	[f]	85.1	
Capacity	[mbh]	81.7	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	43.5	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	27.6
Application EER	16.1
COP	5.5

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	24 -
Fluid Pressure Drop	[psi]	12.40 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	1,594	
Coil EAT (db/wb)	[f]	86.2	58.9
Coil LAT (db/wb)	[f]	48.7	42.9
Unit LAT (db/wb)	[f]	51.3	46.9
Total Capacity	[mbh]	64.5	
Sensible Capacity	[mbh]	64.5	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	9.8	-
EWT	[f]	50.0	-
LWT	[f]	61.0	-

HEATING PERFORMANCE			
Coil EAT	[f]	29.1	
Unit LAT	[f]	65.5	
Capacity	[mbh]	62.7	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	41.8	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	32.4
Combined Efficiency	23.3
COP	7.5

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 -
Fluid Pressure Drop	[psi]	9.30 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.



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- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	1,963	
Coil EAT (db/wb)	[f]	81.8	58.4
Coil LAT (db/wb)	[f]	50.6	45.2
Unit LAT (db/wb)	[f]	67.8	55.1
Total Capacity	[mbh]	66.2	
Sensible Capacity	[mbh]	66.2	
HGRH Capacity	[mbh]	30.5	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		Mod.	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	10.1	-
EWT	[f]	50.0	-
LWT	[f]	61.4	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	32.8
Application EER	18.1
COP	7.3

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 -
Fluid Pressure Drop	[psi]	9.30 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	37.2	
Unit LAT	[f]	66.8	
Capacity	[mbh]	62.8	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	41.8	-



Printed Date: 12/21/2016
Job: Wood River Valley Animal Shelter - MUA's
Mark: MUA-1 Kennels
Model: VPRP-210-10G-WSHP-C-1GC

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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	3,180	
Coil EAT (db/wb)	[f]	87.0	59.2
Coil LAT (db/wb)	[f]	49.6	43.2
Unit LAT (db/wb)	[f]	52.1	47.5
Total Capacity	[mbh]	128.4	
Sensible Capacity	[mbh]	128.4	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	1
Compressor Type		Standard	Digital Scroll
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	9.8	7.1
EWT	[f]	50.0	50.0
LWT	[f]	61.3	60.9

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	30.4
Combined Efficiency	22
COP	7

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 15
Fluid Pressure Drop	[psi]	9.30 9.30
Connection Diameter	[in]	1 1
Valve Type		3 - Way 3 - Way

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	28.1	
Unit LAT	[f]	65.1	
Capacity	[mbh]	127.0	
Circuit		A	B
EWT	[f]	50.0	50.0
LWT	[f]	41.7	41.8



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	1.963	
Coil EAT (db/wb)	[f]	80.6	58.8
Coil LAT (db/wb)	[f]	49.4	45.8
Unit LAT (db/wb)	[f]	66.7	55.0
Total Capacity	[mbh]	66.1	
Sensible Capacity	[mbh]	66.1	
HGRH Capacity	[mbh]	30.9	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		Mod.	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	10.1	-
EWT	[f]	50.0	-
LWT	[f]	61.4	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	32.8
Application EER	18.1
COP	7.2

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 -
Fluid Pressure Drop	[psi]	9.30 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	38.2	
Unit LAT	[f]	67.8	
Capacity	[mbh]	62.8	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	41.8	-



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	3,163	
Coil EAT (db/wb)	[f]	87.1	59.2
Coil LAT (db/wb)	[f]	49.5	43.2
Unit LAT (db/wb)	[f]	52.0	47.4
Total Capacity	[mbh]	128.3	
Sensible Capacity	[mbh]	128.3	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	1
Compressor Type		Standard	Digital Scroll
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	9.8	7.1
EWT	[f]	50.0	50.0
LWT	[f]	61.3	60.9

HEATING PERFORMANCE			
Coil EAT	[f]	28.1	
Unit LAT	[f]	65.2	
Capacity	[mbh]	126.9	
Circuit		A	B
EWT	[f]	50.0	50.0
LWT	[f]	41.7	41.8

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	30.4
Combined Efficiency	22
COP	7

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 15
Fluid Pressure Drop	[psi]	9.30 9.30
Connection Diameter	[in]	1 1
Valve Type		3 - Way 3 - Way

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	3,895	
Coil EAT (db/wb)	[f]	79.2	62.2
Coil LAT (db/wb)	[f]	51.2	49.7
Unit LAT (db/wb)	[f]	67.8	57.2
Total Capacity	[mbh]	135.0	
Sensible Capacity	[mbh]	117.9	
HGRH Capacity	[mbh]	56.0	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	1
Compressor Type		Standard	Digital Scroll
HGRH		Mod.	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	10.4	7.1
EWT	[f]	50.0	50.0
LWT	[f]	62.0	61.4

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	31.4
Application EER	18.8
COP	5.2

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 15
Fluid Pressure Drop	[psi]	9.30 9.30
Connection Diameter	[in]	1 1
Valve Type		3 - Way 3 - Way

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	58.6	
Unit LAT	[f]	88.3	
Capacity	[mbh]	125.1	
Circuit		A	B
EWT	[f]	50.0	50.0
LWT	[f]	41.7	41.8



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	1,529	
Coil EAT (db/wb)	[f]	86.9	58.1
Coil LAT (db/wb)	[f]	48.4	41.1
Unit LAT (db/wb)	[f]	51.0	46.0
Total Capacity	[mbh]	63.6	
Sensible Capacity	[mbh]	63.6	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	9.8	-
EWT	[f]	50.0	-
LWT	[f]	60.9	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	32.2
Combined Efficiency	24.6
COP	6.4

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 -
Fluid Pressure Drop	[psi]	9.30 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	38.6	
Unit LAT	[f]	76.3	
Capacity	[mbh]	62.3	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	41.8	-



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	5,531	
Coil EAT (db/wb)	[f]	79.3	62.2
Coil LAT (db/wb)	[f]	49.9	48.3
Unit LAT (db/wb)	[f]	52.3	50.1
Total Capacity	[mbh]	210.2	
Sensible Capacity	[mbh]	175.7	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	1
Compressor Type		Standard	Digital Scroll
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	11.5	11.5
EWT	[f]	50.0	50.0
LWT	[f]	61.2	61.1

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	25.7
Application EER	16.6
COP	4.6

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	24 24
Fluid Pressure Drop	[psi]	12.40 12.40
Connection Diameter	[in]	1 1
Valve Type		3 - Way 3 - Way

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	58.8	
Unit LAT	[f]	91.1	
Capacity	[mbh]	192.6	
Circuit		A	B
EWT	[f]	50.0	50.0
LWT	[f]	42.8	42.8



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	2,608	
Coil EAT (db/wb)	[f]	87.2	58.5
Coil LAT (db/wb)	[f]	54.2	44.5
Unit LAT (db/wb)	[f]	57.2	50.3
Total Capacity	[mbh]	92.9	
Sensible Capacity	[mbh]	92.9	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	11.6	-
EWT	[f]	50.0	-
LWT	[f]	60.0	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	28.1
Combined Efficiency	20.5
COP	6.5

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	24 -
Fluid Pressure Drop	[psi]	12.40 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	37.8	
Unit LAT	[f]	67.1	
Capacity	[mbh]	82.6	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	43.5	-



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- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	2,476	
Coil EAT (db/wb)	[f]	81.6	61.0
Coil LAT (db/wb)	[f]	49.0	47.3
Unit LAT (db/wb)	[f]	51.2	49.1
Total Capacity	[mbh]	90.6	
Sensible Capacity	[mbh]	87.2	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	11.6	-
EWT	[f]	50.0	-
LWT	[f]	59.7	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	27.9
Application EER	18.4
COP	5.3

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	24 -
Fluid Pressure Drop	[psi]	12.40 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	59.4	
Unit LAT	[f]	89.9	
Capacity	[mbh]	81.4	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	43.5	-



Heating & Cooling

Water Source Heat Pump

- Packaged refrigeration system with all refrigeration specialties for stand-alone operation
- 1/2" diameter 0.016" thick copper tubes with 0.0060" thick fin evaporator coil
- 3/8" diameter 0.016" thick copper tubes with 0.0060" thick fin condensing and HGRH coils
- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	1,511	
Coil EAT (db/wb)	[f]	87.1	58.5
Coil LAT (db/wb)	[f]	48.0	41.4
Unit LAT (db/wb)	[f]	50.7	46.0
Total Capacity	[mbh]	63.7	
Sensible Capacity	[mbh]	63.7	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	9.8	-
EWT	[f]	50.0	-
LWT	[f]	60.9	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	32.2
Combined Efficiency	24.7
COP	5.9

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 -
Fluid Pressure Drop	[psi]	9.30 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	46.1	
Unit LAT	[f]	84.0	
Capacity	[mbh]	62.0	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	41.8	-



Heating & Cooling

Water Source Heat Pump

- Packaged refrigeration system with all refrigeration specialties for stand-alone operation
- 1/2" diameter 0.016" thick copper tubes with 0.0060" thick fin evaporator coil
- 3/8" diameter 0.016" thick copper tubes with 0.0060" thick fin condensing and HGRH coils
- Minimum of 6" of separation between evaporator and HGRH coil
- Manual high-pressure reset, automatic low-pressure reset
- Double-sloped stainless steel drain pan

COOLING PERFORMANCE			
Coil Airflow	[cfm]	1,213	
Coil EAT (db/wb)	[f]	79.6	66.7
Coil LAT (db/wb)	[f]	49.9	48.4
Unit LAT (db/wb)	[f]	52.2	50.0
Total Capacity	[mbh]	64.5	
Sensible Capacity	[mbh]	38.9	
HGRH Capacity	[mbh]	null	
Evaporator Coil	[rows]	4	
Circuit		A	B
Stages		1	-
Compressor Type		Digital Scroll	-
HGRH		-	-
Refrigerant Type		R-410A	R-410A
Refrigerant Charge	[lbs]	9.8	-
EWT	[f]	50.0	-
LWT	[f]	60.8	-

COOLING OPTIONS	
Evaporator Coil Protection	Standard
HGRH Coil Protection	Standard

EFFICIENCY PERFORMANCE	
Condensing EER	32.7
Application EER	24.2
COP	4.7

FLUID & CONNECTION DATA		
Fluid	Water	
Concentration	[%]	N/A
Circuit		A B
Flow Rate	[gpm]	15 -
Fluid Pressure Drop	[psi]	9.30 -
Connection Diameter	[in]	1 -
Valve Type		3 - Way -

Water-side fluid pressure drop includes heat exchanger and factory-included water valve.

HEATING PERFORMANCE			
Coil EAT	[f]	58.3	
Unit LAT	[f]	105.0	
Capacity	[mbh]	61.2	
Circuit		A	B
EWT	[f]	50.0	-
LWT	[f]	41.8	-

RECEIVED

FEB 27 2017

DEPT OF WATER RESOURCES
SOUTHERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Fee is \$100 per § 42-221C, Idaho Code

Applicant(s) Animal Shelter of Wood River Valley Inc. Phone 208-788-4351
Name connector (check one): ☐ and ☐ or ☐ and/orMailing address P.O. Box 1496 City HaileyState ID Zip 83333 Email: _____I am the owner of Water Appropriation Permit No. 37-22436 and request that the permit be amended as follows:

- ☐ Change point of diversion ☐ Add point of diversion ☐ Change period of use
☒ Change nature of use ☐ Change place of use ☐ Other _____

1. Point of diversion: ☒ No changes to point(s) of diversion. Skip item #1 and proceed to #2.
☐ Attach Eastern Snake Plain Aquifer analysis if this proposes to change a point of diversion affecting the ESPA.

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #

2. Period and nature of use: ☐ No changes to period and/or nature of use. Skip item #2 and proceed to #3.

Amount 0.64 / for COMMERCIAL purposes from 01/01 to 12/31 (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year) (water use) (month/day) (month/day)

3. Place of use or land to be irrigated: ☐ No changes to place of use. Skip item #3 and proceed to #4.

Twp	Rge	Sec	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	18E	17		C	C														

Total number of acres to be irrigated _____

ORIGINAL

4. Property ownership:

☐ No changes to point of diversion and/or place of use. Skip item #4 and proceed to #5.

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

5. Describe the proposed change in narrative form:

Applicant seeks to change the nature of use associated with 37-2436 to commercial use for a proposed facility that will be constructed in 2017.

6. Map:

☐ The point(s) of diversion and/or the place of use are not amended, therefore a map is not attached.

Attach a map showing the proposed point(s) of diversion and/or place(s) of use. Clearly label the map with township, range, section, and $\frac{1}{4}$ of section information. A photocopy of a USGS 7.5 minute topographic quadrangle is commonly used, or the *Map Tool* available on the Department website provides a satisfactory template for creating the required map (<http://maps.idwr.idaho.gov/TransferApplicationLayouts/Map>).

7. Signature:

The information in this application is true to the best of my knowledge. I understand that any willful misrepresentations in this application may result in rejection of the application or cancellation of an approval.

[Signature]
Signature of applicant or authorized agent

Brooke Bonner, Associate Director 2/20/17
Print name (and title, if applicable) Date

Signature of applicant or authorized agent

Print name (and title, if applicable)

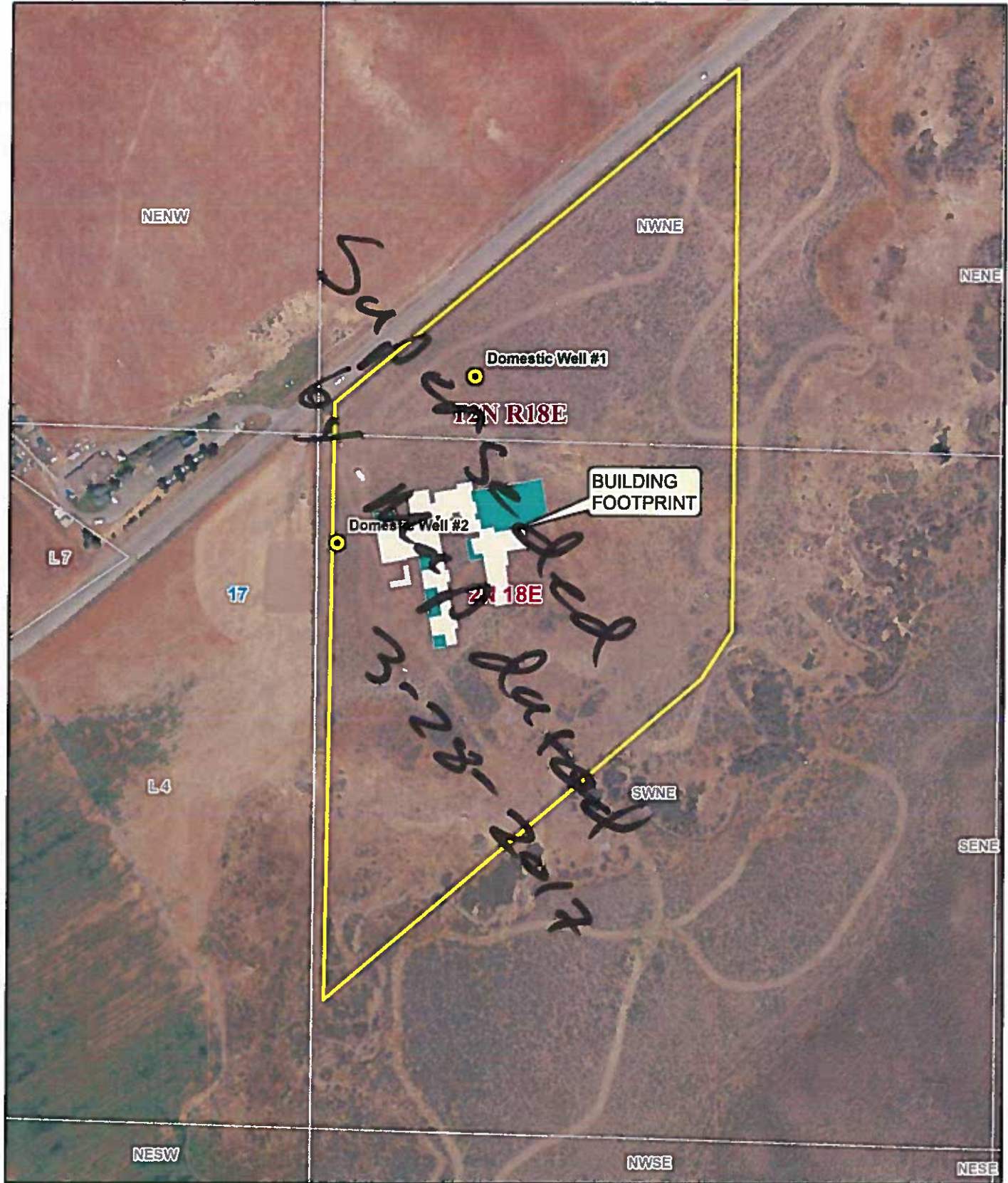
Date

FOR DEPARTMENT USE ONLY

Received by [Signature]
Received by [Signature]
Reviewed by _____

Date 2/27/2017
Date _____
Date _____

Receipt No. 5035968



ANIMAL SHELTER OF WOOD RIVER VALLEY

PERMIT AMENDMENT 37-22436
NAIP 2015 AERIAL

BROCKWAY ENGINEERING, PLLC.
ICB - Date: 2/16/2017

- POD - New well
- POU 37-22436





State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 30, 2017

ANIMAL SHELTER OF WOOD RIVER VALLEY
PO BOX 1496
HAILEY, ID 83333

RE: Application to Amend Permit No. 37-22436

RE: Application For Permit No. 37-23030

Dear Applicant(s):

The Department of Water Resources has received your application to amend the permit referenced above. Please refer to the permit number referenced above in all future correspondence regarding this application. The Department has also received your water right application for new appropriation, as referenced above.

A legal notice of the application has been prepared and is scheduled for publication in the **IDAHO MOUNTAIN EXPRESS** on **4/5/2017** and **4/12/2017**. Protests to this application may be submitted for a period ending ten (10) days after the second publication. Any protest against this application must be filed with the Department of Water Resources, together with a protest fee of \$25.00 for each application, on or before **April 24, 2017**.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application to amend the permit is approved, the Department will send you a copy of the amended permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

Denise Maline
Administrative Assistant

cc:

BROCKWAY ENGINEERING PLLC
C/O ZACH LATHAM
2016 N WASHINGTON ST STE 4
TWIN FALLS, ID 83301

Maline, Denise

From: Maline, Denise
Sent: Thursday, March 30, 2017 4:46 PM
To: Kevin Lakey (WD 37); Cyndi WD37
Subject: Comment Letters - Animal Shelter of Wood River Valley, City of Hailey et al
Attachments: Amendment of Permit 37-22436.pdf; 37-23030.pdf; Transfer 81494.pdf; Comment Letter to WM37 for 37-22436, 37-23030, 81494.docx

Good afternoon,

Attached are copies of applications within your district, which are currently being processed. Please review the information and provide any necessary comments within 21 days.

Thank you in advance,

Denise @ IDWR

*Denise Maline
Administrative Assistant I
Idaho Dept of Water Resources, Southern Region
650 Addison Ave W, Ste 500
Twin Falls, ID 83301
(208) 736-3033
denise.maline@idwr.idaho.gov*



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 30, 2017

WATER DISTRICT #37
KEVIN LAKEY
107 W 1ST ST
SHOSHONE ID 83352

via e-mail

RE: Application to Amend Permit No. 37-22436

RE: Application For Permit No. 37-23030

RE: Transfer No. 81494
Water Right No(s). 37-22019

Dear Kevin:

A copy of the above referenced application is enclosed. Please review the application, then complete the enclosed recommendation form as necessary, and return it to this office within 21 days of the date of this letter.

If the application is approved, IDWR will include appropriate standard conditions of approval for a water right located within a water district, such as regulation by the watermaster, lockable controlling works, and/or measuring devices. Any special conditions or other concerns you have related to this application should be specifically addressed in your recommendation.

IDWR's regional offices can finish reviewing an unprotested application as soon as the protest period has past. Your prompt response to this request will ensure that your recommendation can be considered. If IDWR has not received your written recommendation within 21 days from the date of this letter, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

Maline, Denise

From: Maline, Denise
Sent: Thursday, March 30, 2017 12:49 PM
To: Idaho Mountain Express
Subject: LEGAL NOTICES
Attachments: Idaho Mtn Express cover letter.docx; Big & Little Wood Delivery Call ad (4-2017).docx; Idaho Mtn Express Ad.doc

Attached please find (2) legal notices being submitted for publication on April 5th & 12th, 2017. Please feel free to contact me if you have any questions, or if you are not able to run the ad on the dates requested.

Thank you in advance,

Denise Maline

Administrative Assistant

Idaho Dept of Water Resources, Southern Region

650 Addison Ave W, Ste 500

Twin Falls, ID 83301

(208) 736-3033

denise.maline@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 30, 2017

LEGAL NOTICE DEPARTMENT

IDAHO MOUNTAIN EXPRESS

PO BOX 1013

KETCHUM, ID 83340

RE: Application to Amend Permit No: 37-22436

RE: Application For Permit No.(s): 37-23030

RE: Transfer No. 81494
Water Right No(s): 37-22019

RE: Notice of Water Right Delivery Call filed by the Big Wood & Little Wood Water Users Association

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before April 24, 2017. Your cooperation is appreciated.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

The following application(s) have been filed to *amend* Permit to Appropriate Water:

37-22436

ANIMAL SHELTER OF WOOD RIVER VALLEY

PO BOX 1496

HAILEY, ID 83333

Point of Diversion NWNE S17 T02N R18E BLAINE County Source GROUND WATER Tributary

Point of Diversion NWNE S17 T02N R18E BLAINE County Source GROUND WATER Tributary

Use: COMMERCIAL 01/01 to 12/31 0.64 CFS 68.4 AF

Total Diversion: 0.64 CFS

Date Filed: 2/27/2017

Place Of Use: COMMERCIAL

T02N R18E S17 NWNE SWNE

Application for Amendment of permit seeks to change the location of one of two authorized points of diversion for an existing permit and to change the nature of use from municipal to commercial use for use at a proposed animal shelter facility. Proposed points of diversion and place of use are located approximately 0.8 to 0.9 miles west and 0.5 to 0.8 miles south of the intersection of Hwy 75 and Bullion St in Hailey.

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

37-23030

ANIMAL SHELTER OF WOOD RIVER VALLEY

PO BOX 1496

HAILEY, ID 83333

Point of Diversion SWNE S17 T02N R18E BLAINE County Source GROUND WATER Tributary

Point of Diversion SWNE S17 T02N R18E BLAINE County Source GROUND WATER Tributary

Point of Diversion SWNE S17 T02N R18E BLAINE County Source GROUND WATER Tributary

Point of Diversion SWNE S17 T02N R18E BLAINE County Source GROUND WATER Tributary

Use: COOLING 01/01 to 12/31 0.72 CFS

Use: HEATING 01/01 to 12/31 0.72 CFS

Total Diversion: 0.72 CFS

Date Filed: 2/27/2017

Place Of Use: HEATING, COOLING

T02N R18E S17 NWNE SWNE

Application proposes to appropriate up to 0.72 cfs of ground water for heating and cooling purposes associated with a new animal shelter facility. An existing well and three new wells are proposed to be drilled with the diverted water used and reinjected at the site. Proposed points of diversion and place of use are located approximately 0.8 to 0.9 miles west and 0.5 to 0.8 miles south of the intersection of Hwy 75 and Bullion St in Hailey.

NOTICE OF PROPOSED CHANGE OF WATER RIGHT TRANSFER NO. 81494

CITY OF HAILEY, 115 S MAIN ST #H, HAILEY, ID 83333; HAILEY CEMETERY MAINTENANCE DISTRICT, PO BOX 4515, HAILEY, ID 83333; has filed Application No. 81494 for changes to the following water rights within BLAINE County(s): Right No(s). 37-22019. The purpose of the transfer is to change a portion of the above rights as follows: Application for transfer proposes to split ground water irrigation right 37-22019 (9.37 cfs) and modify its place of use. The right is currently appurtenant to 486.0 acres located approximately 0.7 to 2.3 miles east and 0.2 to 2.4 miles south of the intersection of Main and Bullion Streets in Hailey. The transfer proposes to split off 18.8 acres (0.36 cfs) which will irrigate land located approximately 0.5 to 0.7 miles east and 0.1 to 0.5 miles south of the center of Hailey (Hailey Cemetery). The current point of diversion for right 37-22019 will serve each right and ownership of both rights will remain with the City of Hailey and Hailey Cemetery Maintenance District.

Permits will be subject to all prior water rights. For additional information concerning the property locations, contact Southern Region office at (208) 736-3033; or for a full description of the rights &/or proposed transfer, please see www.idwr.idaho.gov/apps/wr/QueryNewTransfers/QueryNewTransfers.aspx. For additional information on new permits, please see www.idwr.idaho.gov/WaterManagement/WaterRights/#NewListings. Protests may be submitted based on the criteria of Sec 42-222 and 42-203A, Idaho Code. Any protest against the approval of this application(s) must be filed with the Director, Dept. of Water Resources, Southern Region, 650 Addison Ave W, Ste 500, Twin Falls, ID 83301 together with a protest fee of \$25.00 for each application on or before **April 24, 2017**. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on April 5th & 12th, 2017

Mills, William

From: Charles G. Brockway <charles.g.brockway@brockwayeng.com>
Sent: Tuesday, March 28, 2017 12:07 PM
To: Mills, William
Subject: Animal Shelter Permit amendment - revised
Attachments: 170328 Amendment of Permit 37-22436_signed.pdf; PermitAmendment_37-22436_REV.jpg

Bill,

Here is the revised amendment app with signature. Original is on its way. If this could go to advertising today that would be great!

Thanks,
Chuck

Charles G. Brockway, Ph.D., P.E.
Brockway Engineering, PLLC
2016 Washington St. North, Suite 4
Twin Falls, ID 83301
(208) 736-8543
charles.g.brockway@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

Mills, William

From: Zach Latham <zach.latham@brockwayeng.com>
Sent: Thursday, March 09, 2017 9:08 AM
To: Mills, William
Subject: RE: Animal Shelter of Wood River Valley Applications

Thanks Bill,
No problem, I will get the amended app signed and submitted.

Zach Latham

Hydrologist
Brockway Engineering, P.L.L.C.
2016 Washington Street North, Suite 4
Twin Falls, ID 83301
t. 208-736-8543
c.208-721-2114
f. 208-736-8506

zach.latham@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

From: Mills, William [mailto:William.Mills@idwr.idaho.gov]
Sent: Thursday, March 09, 2017 9:03 AM
To: Zach Latham
Subject: RE: Animal Shelter of Wood River Valley Applications

Zach,
I spoke with Corey about this and since the amended page of the permit amendment actually changes the intent of the original application by also changing the POD, the amended application for the amendment of permit 37-22436 will need a signed signature page as well. I'll put the application on hold until you can provide a complete signed amended amendment.
Bill

From: Zach Latham [mailto:zach.latham@brockwayeng.com]
Sent: Wednesday, March 08, 2017 4:29 PM
To: Mills, William <William.Mills@idwr.idaho.gov>
Cc: charles.g.brockway@brockwayeng.com
Subject: RE: Animal Shelter of Wood River Valley Applications

Bill-
Per our phone call today, the applicant is seeking to move one of the wells on the amendment of permit into the NWNE, such that both wells will be in this QQ. Attached is an amended PG1 of the amendment, as well as an amended map. These are meant to take the place of the PG 1 and map originally submitted to IDWR. Please let me know if you have any questions or comments, thanks for your help.

Zach Latham

Hydrologist
Brockway Engineering, P.L.L.C.
2016 Washington Street North, Suite 4
Twin Falls, ID 83301
t. 208-736-8543

c.208-721-2114
f. 208-736-8506

zach.latham@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

From: Zach Latham [<mailto:zach.latham@brockwayeng.com>]
Sent: Friday, March 03, 2017 9:27 AM
To: 'Mills, William'
Cc: charles.g.brockway@brockwayeng.com
Subject: RE: Animal Shelter of Wood River Valley Applications

Bill,
See my answers below in Blue and give me a call to discuss if needed, thanks.

Zach Latham

Hydrologist
Brockway Engineering, P.L.L.C.
2016 Washington Street North, Suite 4
Twin Falls, ID 83301
t. 208-736-8543
c.208-721-2114
f. 208-736-8506
zach.latham@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

From: Mills, William [<mailto:William.Mills@idwr.idaho.gov>]
Sent: Thursday, March 02, 2017 2:04 PM
To: Zach Latham
Subject: Animal Shelter of Wood River Valley Applications

Zach,
I've been reviewing the Animal Shelter of Wood River Valley Applications and I have a couple questions:

On the heating and cooling application the map indicates four wells are located in the SWNE of 2N 18E 17 and the existing well is located in the SENW. The application for permit indicates there are three wells in the SWNE (two new and the injection well), the existing well in the SENW and another new well in the NWNE of 2N 18E 17. So, which is correct? I need either a corrected application or a corrected map.

New well #3's legal location should have the 40 acre tract listed as "SWNE", as the other wells do, the supplemental POD/POU amendment and the map are correct. Attached is a correct 1st page for the permit.

Which leads me to ask if the locations on the amendment for permit 37-22436 are also correct since they are listed as one well in the SWNE and one in the NWNE of 2N 18E 17?

The amendment for permit 37-22436 correctly lists the locations of the two wells.

Also, typically with a change of nature of use with a transfer application the Department requires a conversion analysis. Where this is a permit amendment, I'll have to discuss if there are additional expectations and/or requirements for processing this application with the State office.

A permit amendment wouldn't need an conversion analysis if it hasn't been perfected yet, which is the case for permit 37-22436 (hence the need for the amendment). Please let me know, thanks.

Thanks,
Bill



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

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FEB 27 2017

DEPT OF WATER RESOURCES
SOUTHERN REGION

February 23rd, 2017

Mr. Corey Skinner
Idaho Department of Water Resources
650 Addison Ave W, Ste 500.
Twin Falls, ID 83301-3380

RE: Animal Shelter of Wood River Valley: Water Right Permit Amendment
(1), New Permit (1) and Injection Well (1) Applications.

Dear Corey,

Enclosed are one water right permit amendment application (37-22436), one new heating and cooling permit application and one injection well permit application in the name of Animal Shelter of Wood River Valley Inc. (ASWRV). The ASWRV is looking to expand and is currently planning a new facility across Croy Creek Road, west of Hailey, ID. The enclosed water right permit amendment application seeks to change the nature of use on existing water right permit 37-22436 from Municipal to Commercial use for the proposed facility. All other components of the permit are intended to remain the same.

The new water right permit application seeks to permit year round non-consumptive heating and cooling uses for the planned facility. This permit proposes to divert water for these uses from on existing well and three new wells. Additionally, the ASWRV plans to drill an injection well to be used in conjunction with the non-consumptive heating and cooling permit. Heating and cooling discharge rate requirements are also attached.

The fee for the amendment of permit 37-22436 is \$100. The fee for the non-consumptive heating and cooling permit was calculated at \$250 for the 0.72 cfs diversion rate and the fee for the injection well is \$100. Therefore, the total included application fee is \$450, in the form of one check from Brockway Engineering PLLC.

Please copy our office on all correspondence regarding the enclosed amendment of water right permit 37-22436, new heating and cooling water right permit and injection well permit applications. Don't hesitate to give me a call with comments or questions. Thanks for your time and assistance on this matter.

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

Regards,

Sheila Daniels on behalf of
Zach Latham, M.S., Hydrologist.

Enclosures:

- (1) Water Right Amendment Application for 37-22436 and Map.
- (1) Heating and Cooling Permit Application and Map.
- (1) Injection Well Permit Application. - *forwarded to S.O.*
- (1) Heating and Cooling Discharge Rate Calculations Sheets. *DM*
- (1) Brockway Engineering Check # 13864

Cc: Animal Shelter of Wood River Valley Inc. c/o Kyle Baysinger