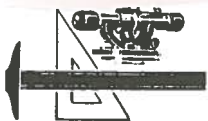


FEB 25 2002?



Engineering Department



P. O. BOX 1907
321 SECOND AVENUE EAST
TWIN FALLS, ID 83303-1907
PHONE 208/736-2273

December 21, 1988

Wally Scarburgh
USEPA
422 W. Washington
Boise, ID 83702

REF: Geothermal Water Discharge

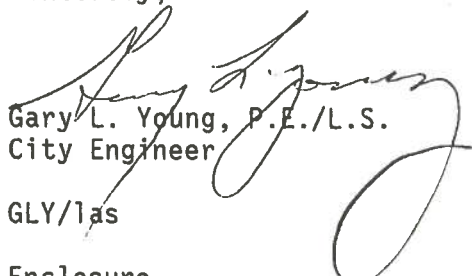
Wally:

Enclosed is information relating to our request to redirect the discharge of geothermal water from the Perrine Coulee to an unnamed coulee which flows to the Snake River. The green line on the enclosed map shows the existing discharge route. The red line shows the proposed route. The unnamed coulee is piped where the red line is solid. The coulee carries irrigation wastewater and storm drainage. It is dry at times.

We have an agreement (enclosed) with School District #411 to use the water to heat our new swimming pool. School District #411 has applied for a discharge for the same water (see attached letter).

Their application number is ID-0026212. What is the status of their application? How should I proceed to satisfy your requirements? I reviewed some of your discharge applications and haven't found one that seem to fit our situation. Please advise.

Sincerely,


Gary L. Young, P.E./L.S.
City Engineer

GLY/las

Enclosure

Attachment

cc: Bob Van Ostrand
Doyt Simco-School Dist. #411
Gary Burkett
USEPA.DEC

*Recd 12/22/88
Closed -
Please file
short*

*This group
discusses District
& city pool
discharge*

File
10-114

TWIN FALLS PUBLIC SCHOOLS
School District No. 411

201 MAIN AVE. WEST
TWIN FALLS, IDAHO
83301

December 12, 1988

U.S. Environmental Protection Agency
ATTN: Dan McDonough
422 West Washington
Boise, ID 83702

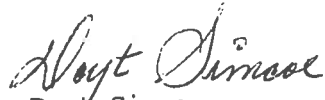
Dear Dan;

I'm enclosing a copy of the application for a permit to discharge geothermal wastewater into the Snake River. This application was originally submitted to your office in Boise on December 11, 1984.

If this District does not need a permit, we would like to receive some written notice permitting us to handle our wastewater in this manner.

Thanks for your help.

Sincerely,


Doyt Simcoe
Director Buildings/Grounds

cc: Gary Young, City Engineer, Twin Falls

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM APPLICATION FOR PERMIT TO DISCHARGE - SHORT FORM C

FOR
AGENCY
USE

APPLICATION NUMBER									
DATE RECEIVED									
YEAR			MO.				DAY		

To be filed only by persons engaged in manufacturing and mining

Do not attempt to complete this form before reading accompanying instructions
Please print or type

1. Name, address, location, and telephone number of facility producing discharge

A. Name Twin Falls School District No. 411

B. Mailing address

1. Street address 201 Main Ave. West

2. City Twin Falls 3. State Idaho

4. County Twin Falls 5. ZIP 83301

C. Location:

1. Street 1615 Filer Ave. East

2. City Twin Falls 3. County Twin Falls

4. State Idaho

D. Telephone No. 208 733-6900

Area
Code

2. SIC

--	--	--

(Leave blank)

3. Number of employees 500 employees district wide, High School has 1500 students.

If all your waste is discharged into a publicly owned waste treatment facility and to the best of your knowledge you are not required to obtain a discharge permit, proceed to item 4. Otherwise proceed directly to item 5.

4. If you meet the condition stated above, check here ☐ and supply the information asked for below. After completing these items, please complete the date, title, and signature blocks below and return this form to the proper reviewing office without completing the remainder of the form.

A. Name of organization responsible for receiving waste _____

B. Facility receiving waste:

1. Name _____

2. Street address _____

3. City _____ 4. County _____

5. State _____ 6. ZIP _____

5. ☐ Principal product, ☒ raw material (Check one) Geothermal Heat

6. Principal process Geothermal well

7. Maximum amount of principal product produced or raw material consumed per (Check one)

Basis (Btu)	Amount							
	1-99 (1)	100-199 (2)	200-499 (3)	500-999 (4)	1000-4999 (5)	5000-9999 (6)	10,000-49,999 (7)	50,000 or more (8)
A. Day <u>btu</u>	Up to 3,000,000 Btu/hr.		72 X 10 ⁶		Btu/day			XX
B. Month								
C. Year								

8. Maximum amount of principal product produced or raw material consumed, reported in item 7, above, is measured in (Check one):

A. ☐ pounds B. ☐ tons C. ☐ barrels D. ☐ bushels E. ☐ square feet
 F. ☒ gallons G. ☐ pieces or units H. ☒ other, specify 72 X 10⁶ Btu/day

9. (a) Check here if discharge occurs all year ☒ , or

300,000 gal/day discharge

(b) Check the month(s) discharge occurs:

1. ☐ January 2. ☐ February 3. ☐ March 4. ☐ April 5. ☐ May 6. ☐ June
 7. ☐ July 8. ☐ August 9. ☐ September 10. ☐ October 11. ☐ November 12. ☐ December

(c) Check how many days per week: 1. ☐ 1 2. ☐ 2-3 3. ☐ 4-5 4. ☒ 6-7

10. Types of waste water discharged to surface waters only (check as applicable)

Discharge per operating day	Flow, gallons per operating day					Volume treated before discharging (percent)				
	0.1-999	1000-4999	5000-9999	10,000-49,999	50,000- or more	None	0.1-29.9	30-64.9	65-94.9	95-100
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. Sanitary, daily average										
B. Cooling water, etc. Daily average					XX	XX				
C. Process water, daily average										
D. Maximum per operating day for total discharge (all types)							Temperature of discharge water w/b approx 70 F.			

11. If any of the three types of waste identified in item 10, either treated or untreated, are discharged to places other than surface waters, check below as applicable.

Waste water is discharged to:	Average flow, gallons per operating day				
	0.1-999 (1)	1000-4999 (2)	5000-9999 (3)	10,000-49,999 (4)	50,000 or more (5)
A. Municipal sewer system					
B. Underground well					
C. Septic tank					
D. Evaporation lagoon or pond					
E. Other, specify					

12. Number of separate discharge points: A. ☒ 1 B. ☐ 2-3 C. ☐ 4-5 D. ☐ 6 or more

13. Name of receiving water or waters Perrine Cooley, then flows approx. 3.5 miles to snake river.

14. Does your discharge contain or is it possible for your discharge to contain one or more of the following substances added as a result of your operations, activities, or processes: ammonia, cyanide, aluminum, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, phenols, oil and grease, and chlorine (residual). A. ☐ Yes B. ☒ No

See attached lab report of water sample from the geothermal well.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate.

Carl R. Snow

Printed Name of Person Signing
 Dec. 11, 1984

Date Application Signed

Superintendent of Schools

Title

Signature of Applicant

18 U.S.C. Section 1001 provides that:

Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious, or fraudulent statements or representations; or makes or uses any false writing or document knowing same to contain any false, fictitious, or

Stukenholtz Laboratory

DIVISION OF AGRI-SCIENCE CONSULTING, INC.

ADDISON AVENUE EAST • BOX 353 • 734-3050 • 678-7161

TWIN FALLS, IDAHO 83301

REPORT FOR: Twin Falls Public Schools REPORT NUMBER: 20533

201 Main W. DATE RECEIVED: 10-2-84

Twin Falls, ID 83301 DATE REPORTED: 10-4-84

NAME: T.F. Public School

Rating of Results

CHEMICAL ANALYSIS	Unit of Measure	Result	lb./Ac. Lt.	Satis- factory	Possible Problems	Significant Problems
pH	-----	7.8	-	-----	X	-----
Carbonate	ppm	12.0	33	-----	X	-----
Bicarbonate	ppm	97.6	265	-----	X	-----
Hardness	Gr./Gal.	11.2	-	X	-----	-----
Electrical Conductivity	umhos/cm	300	-	X	-----	-----
Total Soluble Salts	ppm	192	522	X	-----	-----
Chlorides	ppm	24.5	67	X	-----	-----
Sulfate-Sulfur	ppm S	7.0	19	X	-----	-----
Calcium	ppm	16.0	44	X	-----	-----
Magnesium	ppm	3.2	9	X	-----	-----
Sodium	ppm	36.0	98	X	-----	-----
Sodium Absorption Ratio (Adjusted S.A.R.)	S.A.R.	2.7	-	X	-----	-----
Nitrate-Nitrogen	ppm N	2.3	6	X	-----	-----
Potassium	ppm	4.0	11	X	-----	-----
Phosphorus	ppm	trace	-	X	-----	-----
Boron	ppm	0.2	0.5	X	-----	-----
Flouride	mg/L	3.9 mg/L				

REMARKS

AURORA PUMP **GS**
A UNIT OF GENERAL SIGNAL
1760 Kimberly Road
P.O. Box 892
Twin Falls, Idaho 83301

WELL TEST REPORT

*Hand 10-4-84
Sent copy to
Heath Engle
c/o Lew Wilson
JS*

NAME Twin Falls School District

DATE 10-1 & 2-84

LOCATION Twin Falls High School

WELL DEPTH 1700 ft. WELL SIZE 12-8

CASING

TEST PUMP SETTING 400 ft. BOWLS 8" R

ORIFICE SIZE 8" x 4"

STATIC WATER LEVEL Flowing

STARTING TIME 3:30 P.M.

TIME	PUMPING LEVEL	ORIFICE READING	G.P.M.	MINERS INCHES
4:15				
Shut down 4:30 P.M.				
10-2-84				
Ran pump from 8:30 to 9:30 A.M. Water was 94° F. Shut down to install airline				
Started pump at 1:30 P.M. with 8" std. x 6" orifice				
2:15	321 ft.	12 1/2"	540	60 94° F
2:30	321	12 1/2"	540	60 94° F
3:00	321	12 1/2"	540	60 94° F
After 3:00 P.M. reading showed capacity down and changed to 8" std. x 4" orifice				
3:15	183	30 1/2"	310	34 94° F
3:20	171	28"	295	33 92° F
4:25	171	28"	295	33 92° F
4:30	90	13"	205	23 92° F
4:50	65	12"	195	22 92° F
5:15	65	12"	195	22 92° F
5:35	65	12"	195	22 92° F
6:30	65*	12"	195	22 92° F
7:30	65*	12"	195	22 92° F

Shut down at 7:30 P.M.

* This drawdown checked with sounding line showed 60 ft. pumping level.

Well pumped clear water during entire test.

Gary Fay took a water sample at 5:15 on 10-2-84

GS AURORA PUMP
A UNIT OF GENERAL SIGNAL

GAIL J. STALEY
BRANCH MANAGER

TWIN FALLS BRANCH SALES OFFICE
1970 HIGHLAND AVE. EAST
TWIN FALLS, IDAHO 83301
PHONE 208-733-4278

AURORA PUMPS
Twin Falls Branch

Gail Staley
Gail Staley
Branch Manager

public facility and its determination that the connection will not have a detrimental effect on the health, safety or welfare of the other users of the waste water system. The contract for providing sewer service shall, as a minimum, contain the following provisions:

- (A) A request that the property served be annexed into the City immediately upon becoming contiguous to said City.
- (B) An agreement to comply with all policies, rules and regulations governing the waste water system and to pay all fees and charges for services provided, all as established herein. (Ord. 1753, 3-15-76)
- (C) An agreement to comply with all provisions of the building, zoning and subdivision regulations¹ of this City Code; except, that the requirements for a City issued building permit shall not apply to property which is not then within the current City Area of Impact. (Ord. 2020, 8-10-81)
- (D) An acknowledgment that the use of the public waste water system is granted only because the surplus capacity is available and agreement that such use may be terminated by the City Council at any time they determine that such surplus capacity is no longer available or they determine the terms of the agreement are not being complied with by the owner. (Ord. 1753, 3-15-76)

7-7-5: USE OF PUBLIC SEWERS:

- (A) No person shall discharge or cause to be discharged any natural drainage waters such as storm water, ground water, roof runoff or subsurface drainage to any public sewer. Such natural drainage water shall be discharged to sewers that are specifically designated as storm sewers or to a natural outlet approved by the City Engineer and other regulatory agencies. Natural drainage water from limited areas which is polluted at times may be discharged to the waste water collection system if such discharge is approved by the Waste Water Superintendent and such fee as may be established by the City Council is paid. Cooling waters or process waters shall be discharged to the public sewer; except that discharge to a storm sewer or natural outlet may be allowed if the water is never polluted and upon approval of the City Engineer and the appropriate State and Federal pollution control agencies. (Ord. 2020, 8-10-81)
- (B) No person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewers:
 - 1. Any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas;
 - 2. Any waters containing toxic or poisonous solids, liquids or gases in sufficient quantity, either singly or by interaction with other wastes, to

¹ See Titles 4 and 10 of this Code

Called 11:50 AM
 11/12/84
 to set up for 11:50 AM
 at 11:50 AM

Talked with Mr. Travis
 @ 11:50 AM - about the
 canal and the
 storm drain
 problem. He
 said that the
 city is going
 to get the
 storm drain
 fixed. He
 also mentioned
 the canal and
 the problem
 with the
 water. He
 said that the
 city is going
 to get the
 canal fixed.
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 the problem
 with the
 water. He
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 canal fixed.
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 the problem
 with the
 water. He
 said that the
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 to get the
 canal fixed.

July 11, 1984
 9:30 A.M.

Gary and Carl and Doyt:

Gene Champlin called. The Canal Board met last night. They left it up to Warren Travis to decide about allowing the District to use the canal. They did suggest that we look into using the City's storm-drain, however. Mr. Travis is best reached between 8 AM and 8:30 AM at the yard and shop--phone 733-6436. He will be interviewing tomorrow at the main office and will probably be there if you want to see him.

Jenny

731



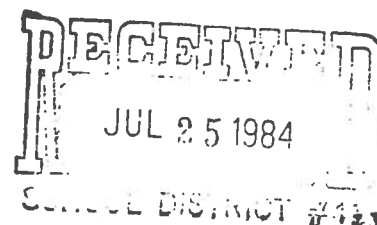
Engineering Department



P. O. BOX 1907
321 SECOND AVENUE EAST
TWIN FALLS, ID 83303-1907
PHONE 733-0860 Area Code 208

July 24, 1984

Carl Snow, Assistant Superintendent
School District #411
201 Main Avenue West
Twin Falls, Idaho 83301



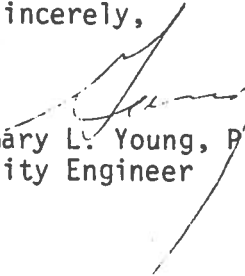
Ref: Discharge of Geothermal Water into City Storm Drain System

Dear Mr. Snow:

Pursuant to City Code section 7-7-5(A) (see attached) you are authorized to discharge up to 250 gallons per minute of Geothermal water into the City of Twin Falls storm drain system at the northeast corner of the intersection of Filer Avenue East and Locust Street North. The design and construction of piping and structures to convey the water will be your responsibility, and I will want to review the plans for your connection into the catch basin before you begin construction.

The City Council has reviewed your request and concurs with this approval. Please review the part of City Code section 7-7-5(A) related to approval of other agencies.

Sincerely,


Gary L. Young, P.E./L.S.
City Engineer

GLY/jh
attachment



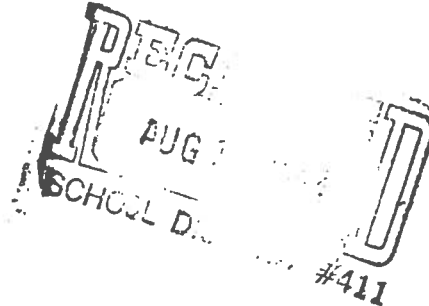
TWIN FALLS CANAL COMPANY

POST OFFICE BOX 326
TWIN FALLS, IDAHO, 83303-0326



August 10, 1984

Mr. Carl Snow or Doyt Simco
Twin Falls School District
201 Main Ave. W.
Twin Falls, Idaho 83301



RE: Twin Falls High School Thermal Well Project

Dear Mr. Snow or Mr. Simco:

In regards to the meeting we had at the proposed thermal well site located at the Twin Falls High School grounds, it was understood by myself, your staff and the City of Twin Falls staff that were present that all problem areas would be solved by bringing water through Lateral 39a and the storm drain back to the Perrine Coulee. After our telephone conversation you informed me that the City had no problems with the storm drain running from the high school directly west to the Perrine Coulee.

It is understood that during the construction of the well there will be a holding pond for the purpose of taking water back to Lateral 39a. If the water is usable we will take it back into the lateral. If not, it will be bypassed into Perrine Coulee.

Also, it's understood that there will be a check and headgate constructed in Lateral 39a so that in the off season of irrigation the water may be checked in the lateral and brought back through the storm drain to the coulee. The Perrine Coulee is a drain system for the City and the additional water you will be putting in it during the off season will not create the canal company any additional O & M problems.

It is also understood that all O & M new construction and maintenance of the additional water that's to be produced from the thermal well for the school cooling and heating will be borne by the school administration maintenance crew.

All new construction will be designed and specifications will be given to Mr. Carl Snow and Mr. Doyt Simco and those specifications and designs will be used during the new construction of the proposed entry into Lateral 39a from the new thermal well. As I mentioned earlier, the holding pond that will have to be used during construction of the well, the water will be settled out into a stilling and holding pond, pumped back across and put into the storm drain and then to Perrine Coulee. I see no problems with that, the concern I had was the ability to use the City storm drain during the off water season and that has been okayed by the City.

I appreciate the closeness of consideration for the Twin Falls Canal Co. during the proposed construction and during operation of the well. I enjoyed meeting and working with you. I hope we can keep the communication open and work this well in the future as times change and new things develop that need to be worked out between your administration and the Twin Falls Canal Co.

If you have any further questions, please feel free to contact me and I'll set up a meeting.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "C.W. Travis".

C.W. Travis

CWT/vld



CHARLES
BROCKWAY
ENGINEERING

September 11, 1994

Mr. Terrell Donicht
Twin Falls School District 411
201 Main Avenue West
Twin Falls, ID 83301

Subject: Geothermal Water Use

Dear Mr. Donicht:

Stoneybrook Development Inc. is developing the area in the north part of Twin Falls adjacent to Madrona and Locust Streets and Pole Line road. A part of this development is improvement and utilization for aesthetic purposes a natural drainage way which traverses the property. This drainage way serves as one channel for storm drain discharge toward the Snake River. This channel also conveys low temperature geothermal water after use by the High School, Sawtooth Elementary School and the Twin Falls City swimming pool.

Conveyance of the low temperature geothermal water in the improved channel will enhance the flow and allow maintenance of ponds throughout the year. Stoneybrook Development is therefor desirous of continuing the conveyance of the used geothermal water through this system.

The Twin Falls School District, developed and is using geothermal water under water permit No 47-7964 for space heating in the High School and Sawtooth Elementary School. This water is further utilized by the City of Twin Falls under amended permit No. 47-7969 in heat exchangers and in shower facilities at the swimming pool. From the swimming pool it currently flows into the nearby storm drain and thence through the open channel flowing through Stoneybrook. Water used in the High School and Sawtooth Elementary can be returned to the Perrine Coulee through another storm drain system.

An examination of the water permits for both the District and the City of Twin Falls shows no conditions requiring the disposal or return of the used geothermal water to any specific location or channel. The only condition on the return water is that it will meet all State Water Quality Standards. A review of the water permits was made with the Idaho Department of Water Resources Southern Regional Office to determine if there were any constraints to disposal of the water. Mr. Doug Jones indicated that, since there were no conditions on either permit, the Department would not require a specific discharge location. Mr. Jones felt that there was no need to indicate

*File: Geothermal water Permit-
Board declined to take any action
on advice of District Attorney (Fritz)
Retain letter of indemnification
on file - Allow city to continue
using H₂O as in the past -
Fritz could see no reason for
the District to formalize
any request/agreement
9-20-94*

CHARLES E.
BROCKWAY,
PhD, P.E.

706 SUNRISE
BOULEVARD
NORTH

TWIN FALLS,
IDAHO 83301

208•733•0938
FAX: 733•1746

the Department's position formally in a letter since the permits have no discharge location requirements.

Mr. Gary Young, Twin Falls City Engineer, and I reviewed the geothermal water distribution systems for both the District properties and the swimming pool. With a minor pressure regulating valve replacement, the City can accept, use and dispose of all water currently used by the District and would prefer to discharge to the storm drain flowing through Stoneybrook properties. My understanding is that it may, in fact, be as easy or easier for the District to run all used geothermal water through the City pool system than discharge back into the Perrine Coulee.

I am therefore requesting, in behalf of Stoneybrook Development, that the District continue to allow the used geothermal water to pass through the City pool system rather than return to the Perrine Coulee. The City can utilize and is more than willing to convey the water and there are no water permit conditions precluding the use of this discharge location.

In a separate letter, Stoneybrook Development has indemnified the District from any liability relating to Stoneybrook's diversion and/or use of the water.

Sincerely,

A handwritten signature in cursive script, appearing to read "C E Brockway".

C. E. Brockway, P.E.

INDEMNIFICATION AGREEMENT

Stoneybrook Development Inc., hereby agrees to indemnify the Twin Falls School District as follows:

Twin Falls School district owns water permit No 47-7964 under which geothermal well water is developed and used in the heating and mechanical systems of the Twin Falls High School and the Sawtooth Elementary school.

The City of Twin Falls under amended permit No 47-7969 can further beneficially utilize the water after it passes through Sawtooth Elementary for heating in the swimming pool.

Water leaving the swimming pool is currently discharged into the drain which passes through the Stoneybrook Development property. Neither of these permits specify the location of the return point for the used geothermal water. The District piping system also allows bypassing cooled water to the Perrine Coulee.

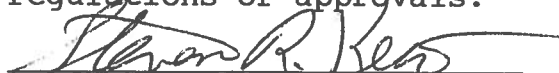
Stoneybrook Development desires the continued use of flow of the discharge of the School district water after beneficial use by the District and the City of Twin Falls. Stoneybrook Development intends to utilize the water for additional beneficial use for aesthetic ponds and waterways on lands downstream from the District property. Stoneybrook Development will utilize the overflow and bypass water discharged from the District property through the swimming pool complex.

Stoneybrook Development agrees that the use of and any control of water will be initiated downstream from the discharge of the District system and will be designed so as to not adversely affect District utilization of the water.

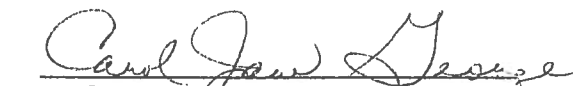
Stoneybrook Development does hereby release, indemnify and hold harmless the Twin Falls School district from any liability arising from the diversion process or the use of subject water or any event related to the use of this water.

Stoneybrook Development understands the District makes no warrants either expressed or implied relating to the source, quantity, or quality of the water or its suitability for any particular purpose.

Stoneybrook Development also assumes all responsibility for approvals from any governing agencies including the City of Twin Falls, State of Idaho or Federal agencies or sub-agencies. Stoneybrook Development Inc. holds the Twin Falls School District harmless from any and all liabilities arising from these agencies' regulations or approvals.


Steven R. Keim, Vice-President

9-10-94


Carol Jane George, Secretary

9-10-94