

March 8, 2007

Jonathan Mitchell
City of Ellsworth
P.O. box 163
Ellsworth, KS 67439

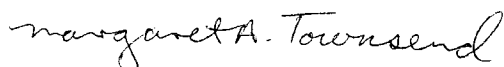
Dear Mr. Mitchell,

I am writing to you concerning the review of the sanitary sewer collection and treatment system upgrade that your city is applying for. As far as I can determine from the information submitted to me there should be no problems with the project.

The only potential concerns I would have are whether the lagoon will be lined, and if there will be (or currently exist) monitoring wells near the lagoons in case of leakage. If these are not included in the plans it may be worth discussing the ideas with the consulting firm with whom you are working.

The above comments are based information that the Kansas Geological Survey has on this proposed site. Other geologic conditions, not discussed here, might affect the stability or safe operation of the proposal. It is the responsibility of the applicant to produce the detailed site evaluation.

Sincerely,



Margaret A. Townsend
Hydrogeologist
Geohydrology Section

City of Ellsworth

Ellsworth, Kansas

CITY HALL – 121 WEST 1ST STREET
P.O. BOX 163 – 67439
(785) 472 – 5566
(785) 472 – 4145 Fax

ROBERT S. HOMOLKA
MAYOR
DON PANZER
COUNCIL MEMBER
ALAN M. STEFEK
COUNCIL MEMBER
DANIEL RAY
COUNCIL MEMBER
COLE D. WORRELL
COUNCIL MEMBER
MARY WIRES
COUNCIL MEMBER

Jonathan Mitchell
City Administrator
Patti L. Booher
City Clerk
Angela Mueller
Treasurer
David C. Smith
Chief of Police
John R. Kerschner
Water/Sewer Supt.
James Zamrzla
Supt. Street
Ronnie Tenbrink
Recreation Director
Carey Hipp
City Attorney
Dale L. Urbanek
Municipal Judge

February 21, 2007

Dr. Lee Allison
Kansas Geological Survey
KU-1930 Constant Ave- Campus West
Lawrence, KS 66047

Re: Environmental Review- Ellsworth, KS, 2007 SRF and
KDOC Grant Submission

Dr. Allison:

The City of Ellsworth, Kansas is planning to upgrade the city's sanitary sewer collection and treatment system through the SRF loan program and a grant from the Kansas Department of Commerce.

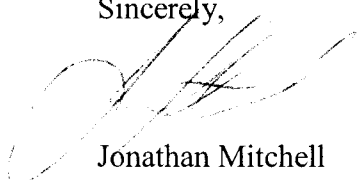
A facility plan summary and maps are attached explaining the proposed upgrades. It should be noted that the proposed improvements are being made to an existing facility on land owned and operated by the City of Ellsworth for the same purpose.

I would appreciate all comments being sent to Jonathan Mitchell, City of Ellsworth, P.O. Box 163, Ellsworth, KS 67439.

If you have any questions please call John Kerschner or Amit Shrivastava, Kirkham Michael Consulting Engineers at 785-531-1075 and 402-952-3866 respectively.

I appreciate you and your staff taking the time to review and further develop our project.

Sincerely,



Jonathan Mitchell
City Administrator
v- (785) 472-5566
m- (785) 531-0773
jmitchell@ellsworthks.net

Enc/ Facility Plan Summary

City of Ellsworth, Kansas
Wastewater System Improvements

Total project costs

	WWTP improvements per Addendum #1 -	
1	Alternate 5A	\$ 813,000
2	Emergency back up power - Generator	\$ 75,000
3	Building Improvements	\$ 35,000
4	Miscellaneous Lab equipment	\$ 5,000
5	Lift Station Improvements	\$ 352,000
6	Water line extension to the plant	\$ 75,000
7	Addition of VFD to blowers & DO Meter	\$ 30,000
8	Influent and RAS flowmeters	\$ 10,000
9	Miscellaneous Collection system improvements	\$ 105,000
Total		<u>\$ 1,500,000</u>

Alternate No. 5A - Enhancing Biolac process and adding 4th cell (8' deep)

Item No	Description	Qty	Units	Unit Cost	Extension	Service Life	20-yr Salvage value
1	Additional Aeration equipment	1	LS	\$ 50,000	\$ 50,000	40	\$ 25,000
2	Biolac Clarifier Mechanism	2	Ea	\$ 75,000	\$ 150,000	20	\$ -
3	Clarifier Construction - Concrete	70	CY	\$ 350	\$ 24,500	40	\$ 12,250
4	Clarifier - Earth Removal	700	CY	\$ 5	\$ 3,500	40	\$ 1,750
5	Cell Flow Structure	1	EA	\$ 5,000	\$ 5,000	40	\$ 2,500
6	Effluent Structure	1	EA	\$ 5,000	\$ 5,000	40	\$ 2,500
7	RAS/WAS piping	400	LF	\$ 40	\$ 16,000	40	\$ 8,000
8	RAS/WAS pumping	1	LS	\$ 10,000	\$ 10,000	20	\$ -
9	Enclosed Blower	1	LS	\$ 35,000	\$ 35,000	20	\$ -
10	Yard Piping (temp by-pass)	500	L.F.	\$ 15	\$ 7,500	20	\$ -
11	Screening Facility	1	EA	\$ 70,000	\$ 70,000	20	\$ -
12	Lagoon Construction	9,000	CY	\$ 5	\$ 45,000	40	\$ 22,500
13	Pond Sterilization	1	AC	\$ 500	\$ 500	20	\$ -
14	Bentonite Lagoon Seal	5000	SY	\$ 6	\$ 30,000	20	\$ -
15	Concrete Slope Protection	750	SY	\$ 50	\$ 37,500	40	\$ 18,750
16	Cell Flow Structure	1	EA	\$ 5,000	\$ 5,000	40	\$ 2,500
17	Effluent Structure w/gates	1	EA	\$ 15,000	\$ 15,000	40	\$ 7,500
18	Yard Piping (temp by-pass)	500	L.F.	\$ 15	\$ 7,500	20	\$ -
19	Step Reaeration Structure	1	EA	\$ 15,000	\$ 15,000	40	\$ 7,500
20	Spliter box and Transfer valve improvements	1	LS	7,500.00	\$10,000	40	\$5,000

Estimated Construction Cost

Contigencies (25%)

Construction Subtotal

Engineering (20%)

Total Estimated Project Cost

Total Salvage Value

\$ 542,000

\$ 135,500

\$ 677,500

\$ 135,500

\$ 813,000

\$ 115,750

Table 5.1 (Chapter V, Page 32) in the original report (Annual O&M Cost Comparison of Alternatives and Cost comparison on a Present Worth Basis) is revised to include Alternative 5A.

- Overhead rail system to assist in repair/removal of pumps and ancillary equipment.
- Backup power generator with automatic switching for incoming power failures (required by Kansas State regulations).

Kirkham Michael believes this pumping station will greatly improve operations; lower maintenance costs and provide many years of reliable service. The total estimated cost of the pumping station is as follows:

Building (Above & Below Grade)	\$ 43,900
Equipment	\$ 210,000
Contingencies (15%)	\$ 38,100
<u>Engineering (20%)</u>	<u>\$ 58,400</u>
Total	\$ 350,400

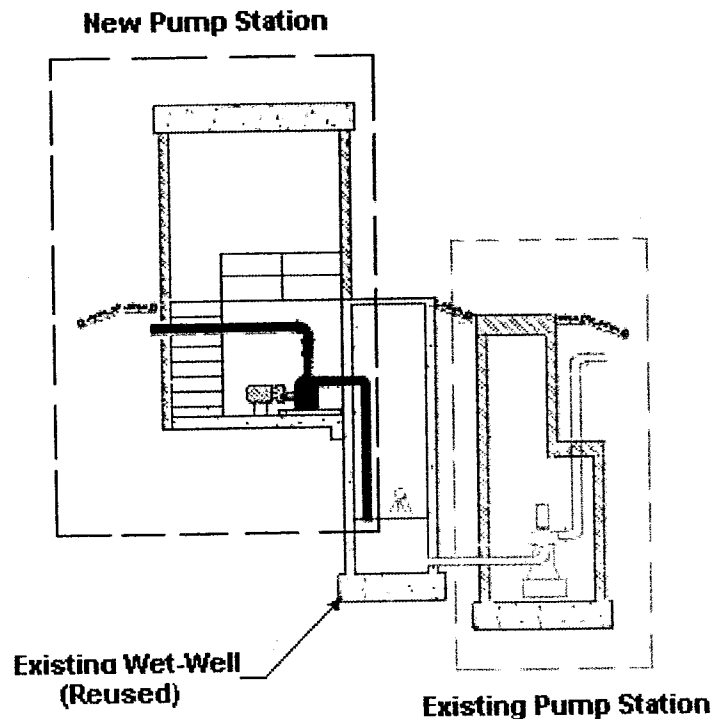
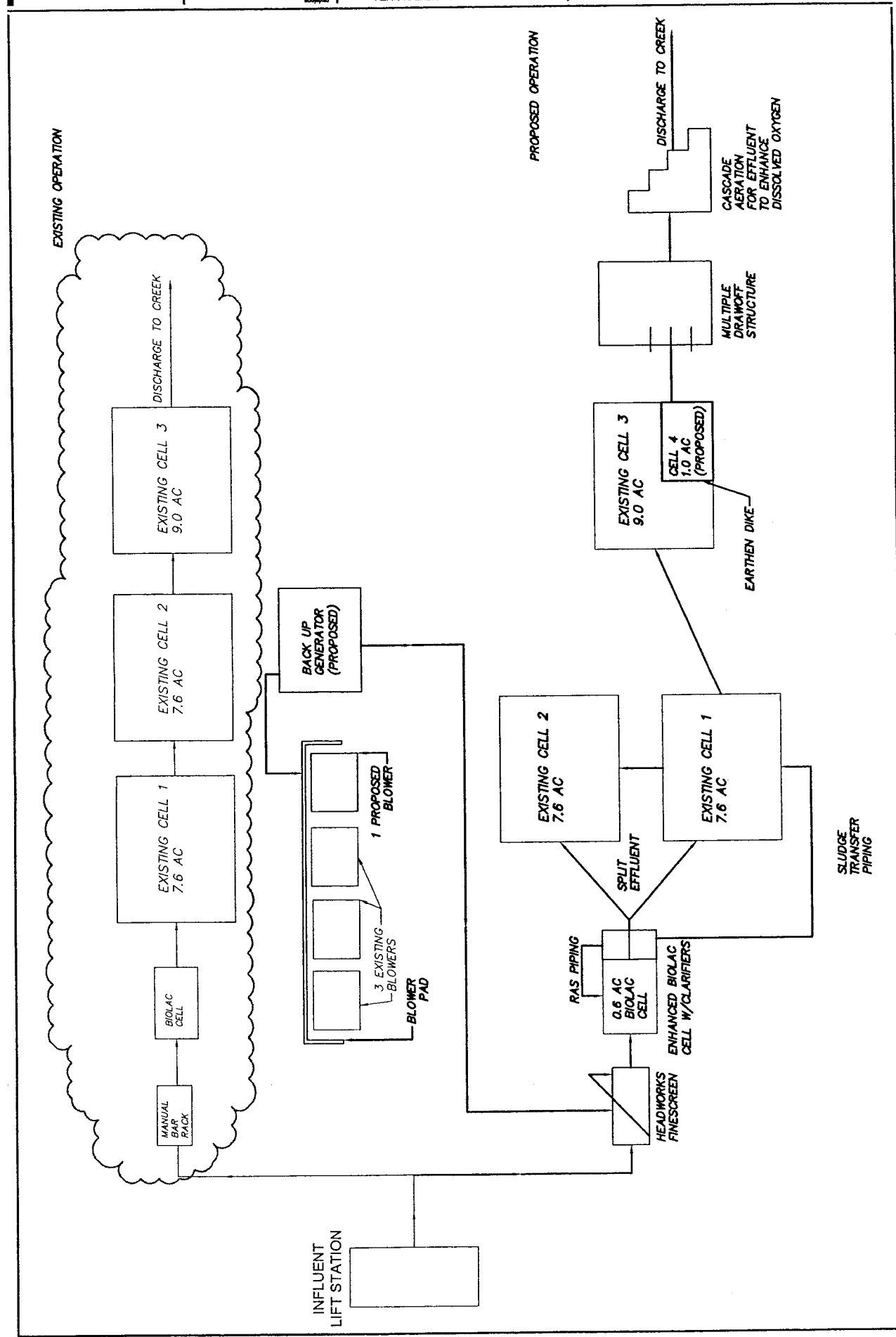


FIGURE 1

Draft – 2/7/07



WARRANTY DEED (Kansas Statutory Form)

Entered in Transfer Record in my office this

27th day of January, A. D., 1983

Rudolph J. Munn
County Clerk.

Robert/Homolka, a single man

CONVEY AND WARRANT TO

The City of Ellsworth, Kansas

all the following described REAL ESTATE in the County of Ellsworth and the State of Kansas, to-wit:

Commencing at the center of Section 22, Township 15 South, Range 8 West of the 6th. P.M., in Ellsworth County, Kansas, said center of section also being the southeast corner of the northwest quarter of said section; thence north 30 feet to the point of beginning; thence west 770.7 feet parallel to the south line of said quarter section at a bearing of N.90 degrees 00'W.; thence northwesterly 2100 feet, at a bearing of N. 15 degrees 00'W; thence East 770.7 feet at a bearing of N.15 degrees N.90 degrees 00'E.; thence southeasterly 2100 feet at a bearing of S.15 degrees 00'E. to the point of beginning in Ellsworth County, Kansas, tract contains 34.66 acres.

for the sum of one dollar and other valuable considerations.

EXCEPT AND SUBJECT TO: easements of record



Dated July 30, 1982

Robert/Homolka
Robert/Homolka
S.

STATE OF KANSAS, Ellsworth COUNTY, ss

BE IT REMEMBERED, That on this 30 day of July

A. D. 1982, before me, the undersigned, a Notary Public

in and for the County and State aforesaid, came Robert/Homolka, a single man S.

Original Compared With Record

PHOTO
COPIED

who is personally known to me to be the same person who executed the within instrument of writing and such person duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal, the day and year last above written.

Viola Jiricek
Viola Jiricek Notary Public.

Term expires 19

STATE OF Kansas ss.
Ellsworth County,

This instrument was filed for record on the 27 day of January, A. D., 1983 at 11:10 o'clock A.M., and duly recorded in book 66 of Deeds

at page 366
Janice Sweeth
Register of Deeds.

Fees, \$ 5.00 Deputy.

WARRANTY DEED (Kansas Statutory Form)

Entered in Transfer Record in my office this

12th day of August, A.D., 1987

Budgett J. Hunsaker
County Clerk.

Robert S. Homolka, a single person

CONVEY AND WARRANT TO

City of Ellsworth

all the following described REAL ESTATE in the County of Ellsworth
and the State of Kansas, to-wit:

Commencing at the center of Section 22, Township 15 South,
Range 8 West of the 6th P.M., in Ellsworth County, Kansas,
said center of section also being the southeast corner of the
Northwest Quarter (NW/4) of said section; thence north 30
feet; thence west 770.7 feet; thence northwesterly 1440 feet,
at a bearing of N. 15 degrees 00'W to the point of beginning;
thence northwesterly 380 feet, at a bearing of N. 15 degrees
00'W; thence southwesterly 130 feet, at a bearing of S. 75
degrees 00'W; thence southeasterly 380 feet, at a bearing of
S. 15 degrees 00'E; thence northeasterly 130 feet, at a bearing
of S. 75 degrees 00'W to the point of beginning in Ellsworth
County, Kansas, reserving unto grantor all mineral rights
there to for the life of the grantor. Tract contains 1.1
acres approximately.

for the sum of One Dollar and Other Valuable Considerations

EXCEPT AND SUBJECT TO:



PHOTO
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Dated August 12, 1987

STATE OF KANSAS, Ellsworth COUNTY, ss

BE IT REMEMBERED, That on this 12 day of
August
A.D. 1987, before me, the undersigned, a
notary public

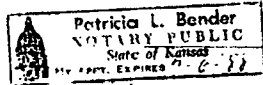
In and for the County and State aforesaid, came

Robert S. Homolka, a single person,

Robert S. Homolka

who is personally known to me to be the same person who
executed the within instrument of writing and such person duly
acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed
my seal, the day and year last above written.



Patricia L. Bender
Notary Public.

Term expires July 6, 1988

STATE OF Kansas
ss.
Ellsworth County,

This instrument was filed for record on the
12 day of August, A.D., 1987,
at 4:35 o'clock P.M., and duly recorded
in book 71 of Deeds
at page 118
Janice Sneath
Register of Deeds.
Sue Queneman
Deputy.
Fees \$ 5.00

