Fields of Opportunities

STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
PATRICIA L. BODDY, INTERIM DIRECTOR

October 28, 2010

Rob McDonald, City Engineer
City Hall
215 E. Washington St.
Washington, IA 52535

RE: Wiley Subdivision - Wastewater Construction Permit
Facility No. 6-92-71-0-01

Dear Mr. McDonald:

I am writing in regard to the proposed Wiley Subdivision and associated sewage collection system located on the eastern edge of the city (next to Walmart).

As you are aware, in 2007, the city entered into a consent agreement (2007-WW-13-A1) with the DNR which outlined a schedule for constructing a new treatment plant. Condition 2 of Section V. states that until necessary construction is completed as described herein, Washington agrees to consult with the Department prior to connecting any new business or multifamily dwelling to the sanitary sewer system in order to determine whether sufficient capacity exists to handle the additional loading while maintaining compliance with applicable effluent standards.

I have reviewed the construction permit application for this project, prepared by Scott Porttorff of MMS Consultants and have discussed it with Mr. Porttorff. The development will consist of 4 commercial lots. A restaurant is planned to be built on the first lot and the future of the other three is not determined yet.

We would not anticipate the project to contribute a significant increase in load to the wastewater treatment plant (especially since this is the relocation of an existing restaurant) and we are approving the connection to the city system. This letter only authorizes the city to approve the Sewage Treatment Agreement with the owner and is not permission to start construction. The owner is still responsible for obtaining a construction permit for the project from DNR's Wastewater Engineering Section in Des Moines prior to beginning installation of the sewer lines.

In a related matter, please advise the city officials that performance of the old treatment plant is "slipping" (refer to my attached NOV letter of 10-15-2010) and there may come a point in the next couple years that we will have to say no to requests like this.

If you have any questions, feel free to contact me at this office.

Sincerely,

FIELD SERVICES & COMPLIANCE BUREAU

Paul Brandt

Paul Brandt
Environmental Specialist Senior

J:/pbrandt/ww/wash1010-ltr

enc. Letter of 10-15-2010

xc: Records Section, DNR, Des Moines
File - Washington Municipal

Iowa Department of Natural Resources
Wastewater Section
Construction Permit Application

SEWAGE TREATMENT AGREEMENT

INSTRUCTIONS

This agreement must be executed for all projects where construction and sewage treatment will be provided by different parties; i.e., a private subdivision connecting to a municipal system. This agreement must be executed by the parties who are owners at the time the permit is issued, regardless of whether title to the proposed construction project will be transferred after completion of the project.

This agreement is not necessary when a contract for sewage treatment already exists; i.e., service contracts between municipalities. However, the Department of Natural Resources must be informed in writing that the contractual agreement does exist.

APPLICANT		ENGINEER	
OWNER Greg Wiley		FIRM MMS Consultants	
ADDRESS 2474 HWY 92, Washington, IA 52353-9337		ADDRESS 1917 S. Gilbert St., Iowa City, IA 52240	
REPRESENTATIVE Greg Wiley	TELEPHONE 319-653-7393	PROJECT OFFICER Scott Porttorff	TELEPHONE 319-351-8282
PROJECT IDENTIFICATION Wiley Subdivision			
OWNER AND SYSTEM RECEIVING WASTES City of Washington			

Scott cell #
319-631-0365

CERTIFI

I am the authorized representative of the owner identified above and s l be constructed in accordance with the plans and specifications and all wa the treatment system identified above.

SIGNATURE	TITLE
J. Gregory Wiley	Own

AGREEMENT TO PROVIDE

I am the authorized representative of the owner of the system identified above and state that the connection of the proposed sanitary sewerage facilities identified above is approved by the owner, and that the owner accepts responsibility for providing adequate treatment of all wastes contributed by this project, in accordance with the provisions of Chapter 455B, Code of Iowa, and the rules of the Department of Natural Resources. This agreement shall not be construed in any way to affect any local ordinances, sewer service agreements, or fee systems entered into between the parties.

SIGNATURE	TYPED OR PRINTED NAME	
TITLE	PHONE NUMBER	DATE

Iowa Department of Natural Resources Wastewater Section
Construction Permit Application
SCHEDULE A, General Information

APPLICANT		ENGINEER	
OWNER Greg Wiley	E-MAIL ADDRESS jgw@iowatelecom.met	FIRM MMS Consultants	E-MAIL ADDRESS s.pottorff@mmsconsultants.net
ADDRESS 2474 HWY 96, Washington, IA 52353-9337		ADDRESS 1917 S. Gilbert St., Iowa City, IA 52240	
REPRESENTATIVE Greg Wiley	TELEPHONE 319-653-7393	PROJECT OFFICER Scott Pottorff	TELEPHONE 319-351-8282
PROJECT IDENTIFICATION Wiley Subdivision	ESTIMATED START DATE * 10/18/2010	ESTIMATED COMPLETION DATE 11/30/2010	

PLEASE RESPOND TO ALL QUESTIONS	YES	NO
1. Has an engineering report, facilities plan or other information previously been submitted for this project?	☐	☒
If Yes=> PROJECT IDENTITY:	DATE SUBMITTED:	
2. Does the project and construction permit application, as submitted, follow the recommendations, design loadings, construction schedule, permit limits, and conclusions of the approved engineering report or facilities plan?	☒	☐
If No=> Provide the design basis and technical information justifying all changes.		
3. Are there three complete sets of plans and specifications accompanying this application? For a minor gravity sewer extension within the meaning of 455B.183.3 Code of Iowa and Design Standard 11.1, two complete sets will be adequate for expeditious approval. For more complex projects, three sets of plans and specifications may be requested.	☒	☐
4. Are approved standard specifications a part of this application?	☒	☐
If Yes=> APPROVED STANDARD SPECIFICATIONS OF (municipality or firm): MMS Consultants	DATE APPROVED: 10/13/2004	
5. Does each set of plans and specifications or engineering report accompanying this application contain a "professional engineering seal" executed in conformance with 542B.16, Code of Iowa?	☒	☐
If No=> Processing will be delayed pending receipt of applicable design schedules and certified plans, specifications or engineering report.		
6. Is this a joint wastewater and water supply project?	☐	☒
If Yes=> A construction permit application for the water supply project should be submitted separately to the Water Supply Section. A water supply permit fee may be required.		
7. Is the applicant to provide treatment of effluent resulting from this construction?	☒	☐
If No=> A Sewage Treatment Agreement (DNR Form 29) executed by the authority providing treatment must accompany this application.		
8. Is a new or amended operation permit necessary to use the facilities described in this application?	☐	☒
If Yes=> A new or amended permit to operate may be requested prior to the receipt of a construction permit.		
9. Is any waterline located within 10 feet; or any private or public well, lake, or public recreation area located within 400 feet of the proposed construction?	☐	☒
If Yes=> Identify and locate the facility(s) relative to the proposed construction.		
10. Will construction inspection be conducted by a licensed engineer employed by the applicant?	☐	☒
If No=> NAME OF ENGINEERING FIRM CONDUCTING INSPECTION: City of Washington		
11. Will this project utilize CWSRF loan funds?	☐	☒

CERTIFICATION

APPLICANT	ENGINEER
I certify that I am the authorized representative of the owner and state that the project identified above is approved by the owner.	I certify that all aspects of design included in this application conform to applicable standards contained in Chapter 567 IAC 64, or that an explanation and justification for any proposed variations from such standards is attached. I am familiar with the information contained in this application, and to the best of my knowledge, such information is complete and accurate.
SIGNATURE: [signature] DATE: 10-25-10	SIGNATURE: [signature] DATE:

*** Estimated Construction Start Date: Complete applications must be submitted at least 120 days in advance of the date for starting construction in accordance with Rules 567 IAC 60.4 and 64.2**

PLEASE COMPLETE THE SCHEDULE CHECKLIST ON THE FOLLOWING PAGE OF THIS FORM

Wyoming Department of Natural Resources
Wastewater Section
Construction Permit Application
SCHEDULE A, General Information

DOCUMENT CHECKLIST

Identify all categories included in this project. Also, identify schedules attached to this application.

SCHEDULE	TITLE	ATTACHED	INCLUDED IN PROJECT	SUBMITTAL DATE
B	Collection system	X	X	
C	Lateral Sewer Extension	X	X	
D	Trunk & Interceptor Sewer	☐	☐	
E	Wastewater Pump Station	☐	☐	
F	Treatment Project Site Selection	☐	☐	
G	Treatment Project Design Data	☐	☐	
H1	Schematic Flow Diagram	☐	☐	
H2	Treatment Process Loading and Removal Efficiency	☐	☐	
H3	Mechanical Plant Reliability	☐	☐	
I	Screening, Grit Removal and Flow Measurement	☐	☐	
J	Septic Tank System	☐	☐	
K1	Controlled Discharge Pond	☐	☐	
K2	Aerated Pond	☐	☐	
K3	Anaerobic Lagoon	☐	☐	
L	Setting Tanks	☐	☐	
M	Fixed Film Reactor – Stationary Media	☐	☐	
N	Rotating Biological Contactor	☐	☐	
O	Aeration Tanks or Basins	☐	☐	
P	Gas Chlorination	☐	☐	
Q	Sludge Digestion and Holding	☐	☐	
R1	Sludge Dewatering and Disposal	☐	☐	
R2(A & B)	Low Rate Land Application of Sludge	☐	☐	
R3	Land Application of Sewage Sludge (To be developed)	☐	☐	
S	Land Application of Wastewater (To be developed)	☐	☐	
	Sewage Treatment Agreement	X	X	

Identify any categories included in this project which are not provided in the above list of schedules.

Iowa Department of Natural Resources
Wastewater Section
Construction Permit Application
SCHEDULE B, Collection system

DATE PREPARED	PROJECT IDENTITY	DNR USE
10/12/10	Wiley Subdivision	PROJECT NO.
DATE REVISED		PERMIT NO.

1. Identify proposed construction which is subject to flooding and explain what is proposed to prevent water from entering the system. If no portion is subject to flooding, state none.

Segment	Flooding Protection
NA	

*2. Indicate hydraulic capacity of: 1) the nearest downstream main or interceptor, 2) the nearest downstream lift station, and 3) all downstream segments where flow restriction may occur. Indicate the source and accuracy of numerical data.

	Segment	Segment	Segment
Location	10" @ 0.35%		
Design capacity, MGD	0.37		
Peak Hourly Dry weather Flow MGD (actual)			
Peak Hourly Wet Weather Flow MGD (actual)			

*3. Identify treatment facility, the design loadings and present raw waste loadings. Indicate source and accuracy of numerical data.

Facility name and number: City of Washington WWTP, 9271001

Facility Loading	MGD	#BOD_5/day
Design	0.83	1135
Average Wet Weather (actual)	2.0	
Peak Hourly Wet Weather (actual)	4.08	

Provide projected design loading increase, which will be added to this facility as a result of this project.

Design Loading	Initial		Design Year ( )	
Residential service area		Acres		Acres
Population		Persons		Persons
Flow (100 GPCD)		GPD		GPD
BOD_5 (0.17 #/d/cap)		#/day		#/day
Industrial service area		Acres		Acres
Rated flow		GPD		GPD
BOD_5		#/day		#/day
Other Commercial	8.97	Acres	8.97	Acres
Rated Flow	45000	GPD	45000	GPD
BOD_5	76.5	#/day	76.5	#/day
Total BOD_5	76.5	#/day	76.5	#/day
Total Flow	45000	GPD	45000	GPD
Peak Hourly Flow	180000	GPD	180000	GPD

* Include a written explanation of items 2 and 3 if the sewer system and/or treatment facility are overloaded.