



# STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR  
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES  
CHUCK GIPP, DIRECTOR

July 17, 2014

Lamoni Municipal Utilities  
Attn: Mr. Emil Segebart, Jr.  
111 South Chestnut Street  
Lamoni, IA 50140

Subject: Variance Request from Design Standards Section 13.4.2  
LMU Sanitary Sewer Improvements, Lamoni, Iowa  
IDNR Project No. S2013-0023

Dear Mr. Segebart:

After careful and thorough consideration, the Department has approved your June 19, 2014 request for a variance from Section 13.4.2 of the Iowa Wastewater Facilities Design Standards which requires screens or trash baskets for raw wastewater lift stations. Based on the documentation presented by your Engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of a variance for the construction of a lift station without the installation of screens or trash baskets. The requested variance is deemed to be reasonable and necessary pursuant to the Iowa Code section 455B.181.

The facts presented for the project present unique circumstances and the approved variance is therefore justified to provide the narrowest exception possible to the provisions of the rules in accordance with Rule 561 IAC 10.5. Since the project planning and construction may last more than one year, the variance is considered to be of a permanent nature. The validity of this variance approval shall last for a period of one year from the date of the construction permit in accordance with Rule 561 IAC 10.5.

This decision is based on our review of justification presented to support the request. Our concurrence with the request is based on the Department's finding that the resulting project will provide substantially equivalent effectiveness as would be provided by technical compliance with the design standard on this issue.




If you have any questions, please call Marty Jacobs at 515-242-6148.

Sincerely,

A handwritten signature in purple ink that reads "Shelli Grapp".

Shelli Grapp  
Water Quality Bureau Chief

cc: Forrest Aldrich, P.E., Veenstra & Kimm, Inc.  
DNR Field Office #5 - Tom Atkinson  
IDNR Sewage File # 6-27-40-0-01  
DNR Legal Services - Diana Hansen

<b>VARIANCE REQUEST</b> <b>Iowa Department of Natural Resources</b>			
1.	Date:	July 10, 2014	14a. Decision:
2.	Reviewer/Engr.:	Marty Jacobs	Date:
3.	Date Received:	June 23, 2014	14b. Expiration Date (if any):
4.	Facility Name:	City of Lamoni	Permanent
5.	Facility Number:	6-27-40-0-01	
6.	County Number:	27 (Decatur)	15. Appealed:
7.	Program Area:	CP (Wastewater)	Date:
8.	Facility Type:	C01 (Collection/Transport)	
9.	Subject Area:	344 (pump clogging protection)	
10.	Rule Reference:	567-64.2(9)a	
11.	Design Std. Ref.:	13.4.2	
12.	Consulting Engr.:	Veenstra & Kimm	
13.	Variance Rule:	567-64.2(9)c	
<b>16. Description of Variance Request:</b> The City of Lamoni is requesting variance from the Iowa Wastewater Facilities Design Standards Chapter 13 – Wastewater Pump Stations and Force Mains – 13.4.2 (Protection Against Clogging) for installation of a wastewater lift station without a trash basket or screens.			
<b>17. Applicant's/Consulting Engineer's Justification:</b> The lagoon and lift station wet well have the same water levels and elevations, so a trash basket would be constantly submerged and therefore impractical. The lift station was included in a project that converted a former treatment lagoon into a lift station. If trash enters the collection system, it settles in the lagoon before it reaches the lift station or trash basket.			
<b>18. Department's Justification:</b> Recommend variance approval.  The variance request was evaluated to determine whether unique circumstances provide for substantially equivalent effectiveness in comparison to the design standards. This lift station serves an industrial park area of Lamoni that previously had its own controlled discharge lagoon treatment system. The lift station project will convey the wastewater that was being treated by the lagoon to the Lamoni treatment plant. The former lagoon and collection system is being retained and will be used as an equalization basin. Objects likely to clog the lift station pumps will have to first pass through this lagoon where most are expected to float or sink rather than be conveyed to the inlet of the lift station. This is unique construction with the former Industrial Park treatment system lagoon being converted to an equalization basin. As noted above, any debris passing through the sewer lines is expected to settle out in the lagoon and not reach the lift station.			
<b>19. Precedents Used:</b> Asbury - 12/12/07 Diamond Head Sanitary District - 2/7/08 Nashua - 9/20/07			
20.	Staff Reviewer:		Date: 7/9/14, 7/10/14
21.	Supervisor:		Date: 7/15/14
22.	Authorized by:		Date: 7-17-14



52013-0023

## VEENSTRA & KIMM, INC.

3000 Westown Parkway • West Des Moines, Iowa 50266-1320

515-225-8000 • 515-225-7848(FAX) • 800-241-8000(WATS)

June 6, 2014

Martin Jacobs  
Iowa DNR Headquarters  
Wallace State Office Building  
502 East 9th Street, 4th Floor  
Des Moines, IA 50319

LAMONI, IOWA  
SANITARY SEWER COLLECTION SYSTEM IMPROVEMENTS  
CONSTRUCTION PERMIT NO. 2013-01555  
PETITION FOR VARIANCE

Enclosed is a copy of the Petition for Variance for the improvements previously made to the sanitary sewer collection system.

Lamoni Municipal Utilities would like to omit the use of the trash basket, due to its impracticality.

If you have any questions or comments, please contact us at 515-225-8000.

VEENSTRA & KIMM, INC.

Forrest Aldrich

FSA:hta  
138-89  
Enclosure  
cc: Emil Segebart, Lamoni Municipal Utilities w/ enclosure

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## PETITION FOR VARIANCE

### Iowa Administrative Code 561-10.9

10.9(1) – Name of Petitioner: Lamoni Municipal Utilities

10.9(1) – Address & Telephone Number of Petitioner:

Address: Lamoni Municipal Utilities      Phone Number: 641-784-6911  
111 South Chestnut Street  
Lamoni, Iowa 50140

10.9(1) – Case Number of Related Contested Case: Not Applicable

10.9(2) – Description/Citation of Specific Rule:

13 Wastewater Pumping Stations and Force Mains  
13.4 Pumps and Pneumatic Ejectors  
13.4.2 Protection Against Clogging

All Pumping stations handling raw wastewater shall have provisions for screening to protect the pumps from clogging or damage.

Trash baskets constructed of a corrosion resistant material and easily removable for cleaning may be used for small pumping stations.

Bar racks with clear openings not exceeding 2 ½ inches shall be provided for larger stations.

Mechanically cleaned bar screens with manually cleaned bar rack bypasses shall be considered for very large installations.

Unless screenings can be collected at ground level, hoists shall be provided for removing screenings containers from facilities located below ground.

10.9(3) – Specific Variance Requested: Request variance to allow the omission of a screening, namely a trash basket.

10.9(4) – Relevant Facts & Justification: The lagoon and lift station wet well have the same water levels and elevations, so a trash basket would be constantly submerged and therefore impractical.

10.9(5) – History of Prior Contacts: Construction permit # 2013-01555 issued November 28, 2012.

10.9(6) – Information Known to Petitioner Regarding IDNR Treatment of Similar Cases: None



10.9(7) – Name, Address, and Telephone Number of Public Agency, Political Subdivision of the State or Federal Government which also Regulates the Activity in Question, or Might be Affected by the Granting of a Waiver or Variance: None

10.9(8) – Name, Address, and Telephone Number of any Person or Entity that Would be Adversely Affected by the Granting of the Petition: None

10.9(9) – Name, Address, and Telephone Number of any Person with Knowledge of Relevant Facts Relating to the Proposed Waiver or Variance:

**Name:** Veenstra & Kimm, Inc. – Consultant  
**Contact Person:** Forrest Aldrich, P.E.

**Address:** 3000 Westown Parkway  
West Des Moines, Iowa 50266

**Telephone Number:** 515-225-8000

**Name:** Lamoni Municipal Utilities  
**Contact Person:** Emil Segebart

**Address:** 111 South Chestnut Street  
Lamoni, Iowa 50140

**Telephone Number:** 641-784-6911

10.9(10) – Signed Releases Authorizing Persons with Factual Knowledge of Relevant Facts Concerning the Variance:

### IOWA ADMINISTRATIVE CODE 561 – 10.11

10.11(17a, 455A) – Notice by Certified Mail:

This Petition is duly submitted this \_\_\_\_ day of June, 2014 by the Lamoni Municipal Utilities as Petitioner. The Petitioner attests to the accuracy of the facts provided in this Petition and the statements of reasons that the Petitioner believes justify this variance request.

  
Lamoni Municipal Utilities

  
Project Engineer  
Veenstra & Kimm, Inc.



52013-0023

**VEENSTRA & KIMM, INC.**

3000 Westown Parkway • West Des Moines, Iowa 50266-1320

515-225-8000 • 515-225-7848(FAX) • 800-241-8000(WATS)

June 19, 2014

Martin Jacobs  
Iowa DNR Headquarters  
Wallace State Office Building  
502 East 9th Street, 4th Floor  
Des Moines, IA 50319

LAMONI, IOWA  
SANITARY SEWER COLLECTION SYSTEM IMPROVEMENTS  
CONSTRUCTION PERMIT NO. 2013-01555  
PETITION FOR VARIANCE

As discussed in the Petition of Variance sent June 6, 2014, Lamoni Municipal Utilities would like to omit the use of a trash basket, due to its impracticality. This impracticality can be attributed to two different reasons, discussed below.

The first is that if a trash basket were to be installed, it would be constantly submerged, thus making it inaccessible. The proposed trash basket could not be emptied using reasonable methods.

Secondly, all the trash that does enter the system settles in the lagoon prior to reaching the location of the trash basket. The trash settles in the pond and does not reach the trash basket. See attached sketch.

Due to the inaccessibility of the trash basket and the existence of the lagoon, Lamoni Municipal Utilities would request approval of a variance to omit its use of a trash basket.

If you have any questions or comments, please contact us at 515-225-8000.

VEENSTRA & KIMM, INC.

Forrest Aldrich

FSA:hta

13889

Enclosure

cc: Emil Segebart, Lamoni Municipal Utilities w/ enclosure

West Des Moines • Coralville • Omaha • Moline • Mason City • Sioux City • Liberty

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# LAMONI SEWER COLLECTION SYSTEM IMPROVEMENTS

