Soil Erosion, Sediment Control & Stormwater Runoff Plan



Expedition Wind 4/16/2019

1 CONTENTS

1	C	Contents1					
2	St	State of Kansas Requirements					
3	V	1arion County	3				
	3.1	Article 27-105(16)	3				
	3.2	Article 27-105(7)	4				
4	Te	emporary Erosion Control	4				
5	Te	emporary Sediment Control	5				
6	In	nspection and Maintenance	5				
	6.1	Inspection Report Requirements	6				
7	W	VECS Construction					
	7.1	Grading	6				
	7.2	Construction and Drainage of Access Roads and Turbine Pads	6				
	7.3	Site Soil Information	7				
	7.4	Site Design Features for Receiving waters Quality	8				
	7.5	Revegetation and Slope Stabilization	9				
	7.6	Site restoration	9				
	7.7	Disposal and Storage of Excavated Material	9				
	7.8	Protecting Exposed Soils	9				
	7.9	Site Restoration	10				
8	W	VECS Operation	10				
	8.1	Operations and Maintenance	10				
	8.2	Potential Hazardous Material Storage and Use	10				
	8.3	Storage and Labeling	10				
	8.4	Types of Hazardous Waste	11				
	8.5	Potential Hazardous Material Associated With a Wind Farm	11				
9	C	onclusion	14				
10)	References	15				
1.	l	Appendix A					
12	2	Appendix B					
13	3	Appendix C					

14	Appendix D	
15	Appendix E	
16	Appendix F	
Figure	e 1 Hydroseeding slopes is an effective erosion control BMP	4
Figure	e 2 Silt fence should be installed along open soil perimeters	5
Figure	e 3 A summary of the USDA Web Soil Survey shows the characteristics of the soil tha	at has the
poten	ntial to be onsite	7
Figure	e 4 Marion County watershed and drainage of the Neosho River Basin	8
Figure	e 5 OSHO required labeling for hazardous waste	11
Figure	e 6 EPA designated hazardous waste classification	11
_	e 7 This table represents potential hazardous wastes that could be onsite but	
renre	sent all potentially hazardous materials.	13

2 STATE OF KANSAS REQUIREMENTS

The State of Kansas Department of Health and Environment (KDHE) administers the Kansas Water Pollution Control and National Pollutant Discharge Elimination System (NPDES) stormwater runoff from construction activities, general permit revised August 1, 2017. The purpose of this general permit is to implement the Federal Water Pollution Control statues and regulations; to permit the discharge of stormwater runoff from construction site subject to NPDES permit requirements; and to protect the waters of the State from sedimentation and other contaminants. The Kansas KSR1000000 general permit can be referenced in Appendix A.

It is the responsibility of the construction contractor to obtain this state-level permit with a detailed grading plan, by a state licensed Professional Engineer, with the erosion and sediment control Best Management Practices (BMP) features tailor-made for each project. Additionally, a Storm Water Pollution Prevention Plan (SWPPP) must be developed that lays out a chain of command to reposed to site inspections, hazard mitigation, storage of construction material, temporary and permanent stabilization, and site-specific design features to ensure the protection of potential downstream waters. There are general industry standards that apply to development projects that are outside site-specific design features that are determined to meet a lot of the intent of the NPDES permit.

As a condition of the CUP, these plans may be provided to Marion County before the start of construction by the general construction contractor and their subcontractors. Expedition has addressed those general industry BMP in the following section per 27-105(16) of the Marion County Zoning Code:

3 Marion County

Expedition Wind has developed an Erosion and Sediment Control and Storm Water Runoff Plan, for permitting purposes, to address the regulations to preserve agricultural topsoil and prevent the sedimentation of county creeks, streams, or rivers. This plan is meant to give the County guidance on how the wind industry uses BMP to ensure compliance with the state and national level permit as required by the Code of Federal Regulation.

3.1 ARTICLE 27-105(16)

Soil Erosion, Sediment Control & Storm Water Runoff. Applicant shall develop a Soil Erosion, Sediment Control & Storm Water Runoff Plan. The Plan shall address what types of erosion control measures will be used during each phase of the project. Said plan shall identify plans for:

- A. Grading;
- B. Construction and drainage of access roads and turbine pads;
- C. Necessary soil information;
- D. Design features to maintain downstream water quality;
- E. Revegetation to ensure slope stability;

F. Restoring the site after temporary project activities.

The Soil Erosion, Sediment & Storm Water Runoff Plan shall also include practices regarding:

- 1. Disposal of storage of excavated materials;
- 2. Protecting exposed soil;
- 3. Stabilizing restored material and removal of silt fences or barriers when the area is stabilized;
- 4. Maintenance of erosion controls throughout the life of the project.

3.2 ARTICLE 27-105(7)

All lubricants and/or hazardous materials to be located on the premises in connection with the WECS facility shall be kept and transported in accordance with all state and federal regulations.

Since Stormwater Pollution Prevention Plans always address spill prevention and the storage of hazardous material that may be transported through the environment by water pathways, this plan also addresses Marion County Article 27-105(7) due to overlapping BMP to address concerns.

4 TEMPORARY EROSION CONTROL

Temporary erosion control BMP are designed to keep site soils from moving from their settled location. This is the most effective way to ensure site soils are not moved by stormwater and runoff pathways into creeks, stream, or rivers where they are further transported. Temporary erosion control includes but is not limited to:

- ▲ Riprap
- ▲ Temporary seeding
- ▲ Hydroseeding
- ▲ Hydromulch
- ▲ Stray mulch
- ▲ Erosion Control Blanket
- ▲ Turf reinforcement mats
- **▲** Berms



Figure 1 Hydroseeding slopes is an effective erosion control BMP.

Construction should be phased appropriately to ensure that soil exposure is limited as much as feasible. Once temporary erosion controls are installed, the construction contractor's delegated SWPPP inspector will follow the schedule for the routine and post rainfall events to ensure that controls are adequate and any required maintenance is done in a timely manner. A log book of inspection will be kept onsite at all times, being made available to the regulating body at any time. Additionally, it is best to avoid channeling water which can make erosion occur faster onsite. If

channeling water is unavoidable, then the focus should be on velocity reduction through rock check dams, rip rap, or other velocity reducing BMP.

5 TEMPORARY SEDIMENT CONTROL

Temporary sediment control BMP are designed to knock suspended sediment particles out of the water column. Sediment control happens when there is a failure in a site's erosion control and a redundant BMP are need to reduce the discharge of potential sediment-laden water offsite. Temporary sediment control includes but is not limited to:

- ▲ Silt Fence
- ▲ Straw Waddle
- ▲ Hay Bales
- ▲ Mulch Log
- ▲ Sediment Trap
- ▲ Filter Bags (dewatering)
- ▲ Rock Check Dams
- Retention/Detention Ponds



Figure 2 Silt fence should be installed along open soil perimeters.

Once temporary sediment controls are installed, the construction contractor's delegated SWPPP inspector will follow the schedule for routine and post rainfall events to ensure that controls are adequate and any required maintenance is done in a timely manner. A log book of inspection reports will be kept onsite at all times, being made available to the regulating body at any time.

6 Inspection and Maintenance

Once BMP are installed onsite, they must be maintained to ensure they operate effectively and according to the manufacturer specification. These inspections shall be scheduled to place at least once a week and within 24 hours of any precipitation event with accumulation over 0.5 inches. If frozen conditions occur onsite, inspections may cease until the first thaw. Winter condition preparation should take place in fall to ensure that BMP will be in place for the spring thaw.

If during the inspection a BMP is determined to be ineffective, it may need additional or redundant BMP to adequately prevent erosion. If a BMP failure is noted, the inspector will list that failure in their report and assign a corrective action item to take place within a reasonable amount of time. It is a best practice for the construction contractor to have a sub-contractor that specifically deals with erosion control installation and maintenance. However, at a minimum, the general contractor should assign a representative to oversee their stormwater and erosion control program through the construction process.

6.1 Inspection Report Requirements

A standard inspection report should be used so that they are easy to understand for any regulatory inspector and so they can follow the progression of site conditions from preconstruction to post-construction. Photographs are a helpful tool to document compliance with stormwater regulations and should be considered when conducting an inspection. Each inspection report should include:

- o Name of the person who conducts the inspection,
- o Date and time,
- o A checklist of the BMP that are installed,
- o The findings of the inspection and whether there are action items,
- o Date and time the action item is corrected,
- o Weather conditions and the amount of rain, as necessary,
- o Recommendations for SWPPP amendments.

The inspection log should be kept onsite at all times, or be made available within 24 hours upon request from a regulatory authority. It is best to keep the inspection log, stormwater pollution prevention plan, erosion & sediment control plan, and the spill prevention control & countermeasure plan in the onsite construction trailer so it can be accessible to emergency services. The construction sign should have the proper permits posted with the contact information of all the people supporting the permitted program. See Appendix F for an example form inspection.

7 WECS CONSTRUCTION

7.1 GRADING

Grading activities are mostly avoided during the construction of wind projects due to the need to preserve the hydrologic features of exposed soil row-crop agriculture land. The exposed soil conditions allow for the direct placement of the sub-base compaction material, caliche, and crushed rock that make up the access roads and turbine pads, helping to facilitate the avoidance of needing any grading equipment. In the event that an access road or turbine pad requires a change in the natural grade contours, silt fence, sediment logs, or other perimeter control BMPs are installed per the manufacturer specification.

7.2 Construction and Drainage of Access Roads and Turbine Pads

Roads and pads are constructed at grade as much as feasible, but as typical, a slight pitch away from the roads center line or turbine base will allow water to runoff and prevent ponding over an impervious surface. All access roads will have installed a properly sized culvert as determine by HydroCAD modeling, that measures the maximum 100-year flow to each culvert. Temporary rock checks, sediment logs, or other velocity reduction and filtering BMP can be installed on the upstream or downstream end of the culvert to prevent the flow of contaminated water offsite.

Low impact design techniques will help avoid alteration to the natural hydrologic features of a site to allow for the flow and infiltration of stormwater into the agriculture field, and overall, avoid the channeling of stormwater. In the event the drainage ditches or swales are necessary alongside newly constructed roads, temporary soils stabilization of slopes and channel bottom will be installed until permanent soil stabilization is achieved by planting a grass mix of a native species. Check dams, riprap, or other velocity reduction BMP may be used in areas where channelized flows down a steep grade

7.3 SITE SOIL INFORMATION

A soil survey was run for the general area of the county where the project is proposed using the United State Department of Agriculture Web Soil Survey. A summary of the results is below but the reports can be referenced in Appendix B.

Soil Name	Hydrologic Group	K(f)	% AOI	Representative Value		
				% Sand	% Silt	% Clay
Wells loam	В	.32	3.6	38	42	20
Ladysmith silty clay loam	D	.37	2.8	7	60	33
Rosehill silty clay	D	.28	1.4	5	54	41
Chase silty clay loam	D	.37	0.5	4	66	30
Clime silty clay loam	D	.32	15.94	8	56	36
Clime-Sogn complex	D	.32	5.4	5	54	41
Dwight silt loam	D	.43	0.3	7	70	23
Florence silt loam	С	.37	0.9	10	66	24
Irwin silty clay loam	D	.37	38.4	8	59	33
Labette silty clay loam	D	.32	4.5	4	61	35
Labette-Dwight complex	D	.32	1.1	4	61	35
Labette-Sogn silty clay loam	D	.32	4.0	4	61	35
Sogn silty clay loam	D	.28	4.1	10	55	35
Tully silty clay loam	С	.32	5.4	5	62	33
Reading silt loam	С	.37	2.2	6	70	24
Osage silty clay	D	.20	0.2	1	41	58
Verdigris silt loam	В	.37	3.4	15	62	23

Figure 3 A summary of the USDA Web Soil Survey shows the characteristics of the soil that has the potential to be onsite.

As shown in the table, 7% of the soils in the area of interest are classified as hydrologic Group B. Soils in this group have moderately low runoff potential when thoroughly wet and infiltration rates are high. Group C soils make up 8.5% of the soils in the area of interest, these soils have moderately high runoff potential when thoroughly wet and infiltration rates are slow. Group D soils make up 54.8% of the area of interest, these soils have a high runoff potential when thoroughly wet and infiltration rates are very slow.

7.4 SITE DESIGN FEATURES FOR RECEIVING WATERS QUALITY

There are many temporary and permanent erosion and sediment control feature that will be used during construction. Additionally, infiltration or retention ponds can be used where areas of impervious surface, greater than one acre, flow to a common point as mean to control sedimentation of downstream waters. These ponds are designed to hold water and let suspended soils and pollutant to fall out of the water column while letting surface water drain through the watershed via natural pathways. These types of ponds could be used temporarily or permanently at the O&M facility or at the laydown yard, as necessary.

The most effective site design feature is to not leave exposed soil open to the elements for extended periods of times. Construction of wind energy facilities happen in rural agricultural areas where soils are typically exposed and not 100% vegetated. Construction of access roads covers soils with an aggregate cover. Conversion of farmland into access roads and turbine pads do not alter the natural hydrology of water drainage enough to cause significant adverse impacts to receiving waters.

Catlin Creek has the potential to be a receiving water body for area runoff. As of the 2018 Section 303(d) listing, Catlin Creek is not considered an impaired water body. Proper implementation of the SWPPP, erosion & sediment control plan, and spill prevention control & countermeasure plan should be sufficient to ensure that Catlin Creek does not receive contaminated water during construction or the operations phase of the project. See Appendix C for more information.

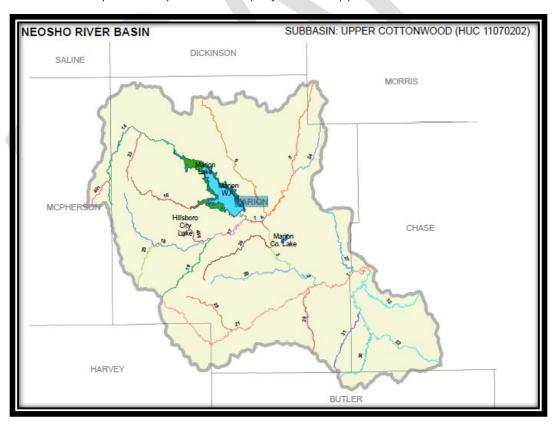


Figure 4 Marion County watershed and drainage of the Neosho River Basin.

7.5 REVEGETATION AND SLOPE STABILIZATION

If vegetation stabilization is needed, the construction contractor will ensure that a seed mix is used in accordance with the Kansas State University Extension Office for the use of a native seed mix devoid of noxious weeds. Temporary erosion control blanket, mulch, geotextile fabric, or other industry BMP may be used if above grade access roads or turbine pads are required for slope stabilization. In almost all cases, an engineered specific ground cover will contain soils converted for project purposes and all other areas are left in an exposed soil row-crop condition for agricultural purposes so farming can continue.

Areas around the collection substation or O&M facility may have a landscape screen to hide features are required by the county. Tall trees, typically coniferous species, can be a visual block of project infrastructure when feasible and financially reasonable.

7.6 SITE RESTORATION

Certain areas where construction activity is anticipated to take place will simply need to be decompacted for the purpose of resuming agricultural activities. Decompaction of agriculture soils is always part of the construction restoration plan for areas not converted for the project purpose and helps ensure hydrologic features for infiltration and runoff rate control resemble preconstruction conditions as much as feasible.

Some areas will be converted to an aggregate cover for access roads, turbine pads, or O&M yard. Other, areas will be revegetated with a native seed species, that seed mix will be an approved Kansas State Extension Office mix as well as the design phase landscape architect, licensed to work in the State of Kansas.

7.7 DISPOSAL AND STORAGE OF EXCAVATED MATERIAL

Stockpiled material from the excavation of turbine foundation is typically backfilled after concrete and rebar installation. In the event that is not the case, perimeter protection will be installed with some form of BMP intended for steep slopes which could include but not limited to hydromulch, tarpaulin, or polyethylene sheeting.

Disposal of excavated material will be the responsibility of the construction contractor but in most cases, excess uncontaminated material can be used elsewhere on site as fill material or soil amendments for other construction activity. Any potentially contaminated material will be transported offsite to a permitted treatment or disposal facility.

7.8 Protecting Exposed Soils

Stabilization of disturbed areas will be initiated immediately whenever construction activity is expected to cease for a period that is greater than 14 days. The area shall be protected from erosion by a temporary, permanent, or a combination of both BMP to ensure that satisfaction with KSR100000. These BMP will be completely installed per the manufacturer specification within 14 days after the end of construction.

7.9 SITE RESTORATION

For projects that disturb agricultural land, disturbed areas that are restored to their preconstruction agriculture use are not subject to the site stabilization criteria of the KSR100000. For those areas that don't qualify as agricultural areas and are not converted to project infrastructure, restoration of soil would be consistent with native perennial cover with special attention to not introduce noxious weeds to the area.

The removal of all temporary BMP would also be consistent with site restoration. This means that the contractor will be required to remove silt fence, stray waddle, hay bales, tracking, and all other temporary erosion and sediment control BMP. Permanent erosion and sediment controls could be left in place to ensure that site runoff does not inundate creeks, rivers, and stream with pollutants, per the engineering plans. This may include but is not limited to, retention bonds, riprap, ditch checks, velocity reduction devices.

8 WECS OPERATION

8.1 OPERATIONS AND MAINTENANCE

Once a wind energy conversion system has finished construction and all electrical testing and energization is complete, the farm is considered ready for energy export. This is the start of the operations and maintenance phases of the WECS. Typically, the turbine manufacturer will be contracted for a 10-year full-service agreement in which they provide about 10 wind energy technicians for full-time onsite maintenance of the turbines. The operation and maintenance building will be full-time staging area that is also available to store excess components, lubricants, fuel, waste oil, cleaning solvents, or other necessary products to ensure the performance safety of every wind turbine.

8.2 POTENTIAL HAZARDOUS MATERIAL STORAGE AND USE

During the operations and maintenance of wind energy facilities, there may be limited quantities of hazardous material stored and used on site to be able to perform the necessary standard maintenance of the wind energy turbines. Any waste material meeting the definition of hazardous under title 40 Code of Federal Regulation, subpart 239-282, containing the Resource Conservation and Recovery Act (RCRA) must be generated, stored, transported, and disposed of pursuant to the CFR and State of Kansas requirements. It is of good practice to have a facility-specific SPCC and MSDS filed with the County Department of Emergency Response and Preparedness, to ensure that all inventoried hazardous waste has a specific site location and its containment information for the purpose of responding to any potential emergency on site. This information can be submitted by the O&M provider.

8.3 STORAGE AND LABELING

Pursuant to 29 CFR 1910.1200 Hazard Communication Standards, any hazardous waste that is generated, stored, transported, or disposed of, are required to have the proper label that is clearly

visible on the outside of an approved containment vessel for which the hazardous waste resides. The U.S. Department of Labor, Occupational Health and Safety Administration regulates the generation, storage, transportation, and disposal of all hazardous waste unless further regulated by its equivalent state agency, which has standardized the labeling process.

Hazardous waste placards must accompany all vessels that contain hazardous waste, with its iconic diamond symbol that is split into four categories:

- 1. Health Hazard
- 2. Fire Hazard
- 3. Instability
- 4. Specific Hazard

Each category has a subcategory with an accompanying rating, classification, characteristics, or other identifying feature to easily denote the severity of a contain hazardous waste for emergency response purposes. Although it is not anticipated the large quantities of hazardous material will be generated or stored onsite, this labeling system will be implemented according to and state and federal laws and regulations.

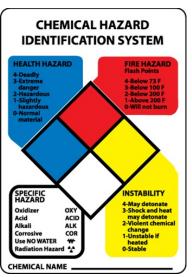


Figure 5 OSHO required labeling for hazardous waste.

8.4 Types of Hazardous Waste

The U.S. Environmental Protection Agency further lists the different types of hazardous waste by their key characteristic class. Most of the potentially hazardous materials that could be stored onsite would fall into the ignitable, and a small amount as corrosive"

Ignitable Waste	(I)
Corrosive Waste	(C)
Reactive Waste	(R)
Toxicity Waste	(E)
Acute Hazardous Waste	(H)
Toxic Waste	(T)

Figure 6 EPA designated hazardous waste classification.

8.5 Potential Hazardous Material Associated With a Wind Farm

The list of potentially hazardous material that may typically be stored onsite for the reason of operating and maintaining a wind facility and the associated infrastructure, is listed below. At the time of writing this document, there is no certainty as to whether any of the material listed below will actually be used or stored on site, the inventory of the final hazardous Material Safety Data Sheet (MSDS) will be

Hazardous Material	Reason/Use	Potential Quantities
Fuel: Diesel	Main engine fuel for most construction equipment and emergency backup	Less than 1,000 gallons.
	power generators.	Stored in Above Ground Tanks (AGT).
Fuel: Gasoline	May be used for smaller construction equipment (i.e.) lawnmower, gators,	Less than 10 gallons.
	chainsaws.	Most likely not stored onsite due to the limited number of
		vehicles and power tools requiring this grade of fuel.
Fuel: Propane	Most probable heating-fuel that would control the ambient heat of the O&M	500-1000 gallons depending on the region and during of
	facility.	cold weather months.
		Stored in AGT.
Lubricating Oil, Grease, Hydraulic	Lubricating oil is present in WTG components and diesel engines for	Limited quantities, shipped and stored as needed during
Fluids, Gear Oil	backup power generators.	the operations phase.
	Maintenance of fluid levels in construction equipment.	Typically stored in 55-gallon drums or less.
	Hydraulic fluids are used in WTG braking systems, driveshafts, and other mechanical controls.	
	Gear oil is needed for yaw motor and drivetrain transmission.	
Glycol-based Antifreeze	Present in WTG and backup power generator for engine cooling in a closed-loop reticular system.	Limited quantities, shipped and stored as needed.
		Typically, 10-20 gallons.
Lead-acid Storage Batteries and Electrolyte	Backup power for WTG for control equipment, lights, and transmitters.	Limited quantities of electrolyte solution for batteries.
Solutions	May be present in some construction	Typically, loss than 20 calls
Other Batteries	equipment. May be present is some control or SCADA equipment.	Typically, less than 20 gallons. No maintenance of these systems is anticipated to happen onsite. Full

		component replacement typically is needed.
Paint and Coatings	Used on WTG exterior parts to prevent tower, nacelle, and blade corrosion.	Typically, less than 50 gallons during the construction phase for touch-ups.
		Typically, less than 20 during the O&M phases.
Cleaning Solvents	Petroleum-based organic solvents (not RCRA listed one) engine and equipment cleaning.	Limited quantities onsite for construction.
	When feasible, water-based cleaners and degreasing solvents are preferred.	Typically, less than 10 gallons.
Dielectric Fluids	An electrical insulator, present in electrical transformers, bushings, and other power management components.	Some larger transformers may have up to 500 gallons.
		Typically, not stored onsite due to special manufacturing and fabrication of complex parts. New parts are ordered.
Explosives	May be used on shallow bedrock for turbine foundation clearing.	Onsite storage is limited to construction only, for a limited time as blasting would commence and end within several days, depending on how many locations require this excavation technique.
Pesticides	Vegetation control around the O&M facility when mowing cannot be performed.	Pesticides are only used to eliminate potential fire hazards as determined by a regulating authority.

Figure 7 This table represents potentially hazardous wastes that could be onsite but may not represent all potentially hazardous materials.

While many of these items listed may not be used or stored on site during the operations and maintenance phase of the project, many other items are the same types of liquids that are stored in people's homes, garages, barns, automotive shops and pose no significant impacts to human health and the environment when handled appropriately.

9 CONCLUSION

The wind industry has a successful history of safely constructing and operating wind energy facilities across the country providing low-cost and reliable power to the equivalent of 30 million homes. This feat would not be feasible if the industry did not operate in a manner that provided premier safety and transparency to all the stakeholders involved. This has been especially true for projects in the construction and operations phase, which both are heavily regulated by federal, state, and local jurisdictional authorities. While this plan is written to satisfy portions of the Marion County zoning regulations, there will be more in-depth compliance plans written to meet the stricter standards of state and federal permitting authorities. These plans will include a more involved erosion and sediment control plan, stormwater pollution prevention plan, and a spill prevention control and countermeasures plan that will need review and approval by state authorities.

During the construction of Expedition Wind, there will be many temporary sediment and erosion controls installed as required by the grading and erosion and sediment control plans drawn and signed by a Kansas licensed Professional Engineer. Those temporary and permanent BMP will be installed per the manufacturer specification and inspected by a full-time site representative on a routine schedule, with special post precipitation inspections pursuant to KSR1000000 rules and regulations. The necessary maintenance will be done within a timeframe that is compliant with the Kansas Pollution Discharge Elimination System General Permit to ensure the water quality of all downstream receiving waters.

If during the operations and maintenance phase of the project there is the generation of hazardous material onsite, the O&M provider will follow all rules, regulations, and best management practices to ensure that the wind farm operates with an immaculate safety record. Accurate records logs will be onsite in conformance with all Codes of Federal Regulations and Kansas Department of Health and Environment, Bureau of Waste Management. However, it is a low probability that hazardous materials with be stored or used on site, that is not already common house-hold, stored at mechanic shops, or used every day in farming operations.

10 REFERENCES

- Baker, M. (2011). Erosion Control and Technical Specifications. Cary: Engineering, Inc.
- County of Marion, Kansas. (2019, Apri 16). Article 27 Wind Energy Conversion System (WECS)

 Overlay District Regulations. Marion, Kansas, United States.
- Government Publishing Office. (2019, April 15). *Electronic Code of Federal Regulations*. Retrieved from Part 261-Identification and Listing of Hazardous Waste: https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=c94567294dff611654af7a3944a91d69&mc=true&r=PART&n=pt40.28.261
- Holly Springs. (2019, April 16). *Engineering Design and Construction Standards*. Retrieved from Sediment & Erosion Control: https://hollyspringsnc.us/DocumentCenter/View/818/400-Sedimentation-and-Erosion-Control?bidId=
- Kansas. (2019, April 16). Retrieved from SWPPP Requirements, Information, Training, Template, or Checklist: http://www.swppps.org/kansas
- Kansas Department of Health and Environment. (2017). Kansas Water Pollution Control and National Pollutant Discharge Elimination System, Stormwater Runoff from Construction Activities. Topeka: Bureau of Water.
- Kansas Department of Health and Environment. (2018). 2018 303(d) List of All Impaired & Potentially Impaired Waters. Topeka: Bureau of Water, Watershed Planning, Monitoring, and Assessment Section.
- Kansas Department of Health and Environment. (2018). *Kansas Surface Water Register.* Topeka: Bureau of Water.
- Kansas Department of Health and Environment. (2019, April 15). *Stormwater Program*. Retrieved from Industrial Section Stormwater Program: http://www.kdheks.gov/stormwater/
- Kansas Department of Transportation. (2019, April 16). *Temporary Erosion and Pollution Control*. Retrieved from Temporary Erosion and Pollution Control: https://www.ksdot.org/Assets/wwwksdotorg/bureaus/burConsMain/specprov/2007/901. pdf
- Larry Hook, P. (2017). Fact Sheet on Permit as Issued. Topeka: Kansas Department of Health.
- McDonnell, B. &. (n.d.). Wind Farm Erosion Controls. *Rock Creek Wind Project*. Retrieved from https://www.google.com/search?q=erosion+and+sediment+control+wind+farm&source= lnms&tbm=isch&sa=X&ved=0ahUKEwjRsJXAuNXhAhVvU98KHXNOAuMQ_AUIDigB&biw= 1816&bih=868#imgrc=rncm_vk4ORxJrM:
- Minnesota Pollution Control Agency. (2006). *Erosion Control Handbook II*. Minneapolis: Minnesota Pollution Control Agency.

- Minnesota Pollution Control Agency. (2018). *Erosion Prevension Practices*. St. Paul: Minnesota Pollution Control Agency.
- Minnesota Pollution Control Agency. (2019, April 12). *Minnesota Stormwater Manual*. Retrieved from Temporary Construction Erosion and Sediment Control: https://stormwater.pca.state.mn.us/index.php?title=Temporary_construction_erosion_a nd sediment control
- Occupational Safety and Health Administration. (2019, April 14). *OSHA Bried*. Retrieved from Hazard Communication Standard: Labels and Pictograms: https://www.osha.gov/Publications/OSHA3636.pdf
- Ontario. (2010). Rolled Erosion Control Products. Montreal: Ontario.
- United State Environmental Protection Agency. (2007). *Developing Your Stormwater Pollution Prevention Plan. A Guide for Construction Sites.* Washington D.C.: U.S. EPA.
- United State Environmental Protection Service. (2018, April 15). *Defining Hazardous Waste: Listed, Characteristic and Mixed Radiological Wastes*. Retrieved from Hazardous Waste: https://www.epa.gov/hw/defining-hazardous-waste-listed-characteristic-and-mixed-radiological-wastes#listed
- United States Department of Agriculture. (2007). *Part 630 Hydrology National Engineering Handbook*. Alexandria: National Resources Conservation Services.
- United States Department of Agriculture. (2019, April 13). *Natural Resource Conservation Service*.

 Retrieved from Web Soil Survey: https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
- Weld County. (2017). Engineering and Construction Guidelines. Weld: Weld County.
- Williams, K. S. (2018). Erosion Control. Seattle: Washington Department of Environment.
- Windpower Engineering & Development. (2019, April 19). Seven steps for making wind-power sites chemically safer and environmentally compliant. Retrieved from https://www.windpowerengineering.com/operations-maintenance/safety/seven-steps-for-making-wind-power-sites-chemically-safer-and-environmentally-compliant/
- Windpower Engineering & Development. (2019, April 15). What are the safety precautions for wind turbine workers? Retrieved from https://www.windpowerengineering.com/operations-maintenance/safety/what-are-the-safety-precautions-for-wind-turbine-workers/

11 APPENDIX A



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

BUREAU OF WATER



KANSAS WATER POLLUTION CONTROL

AND

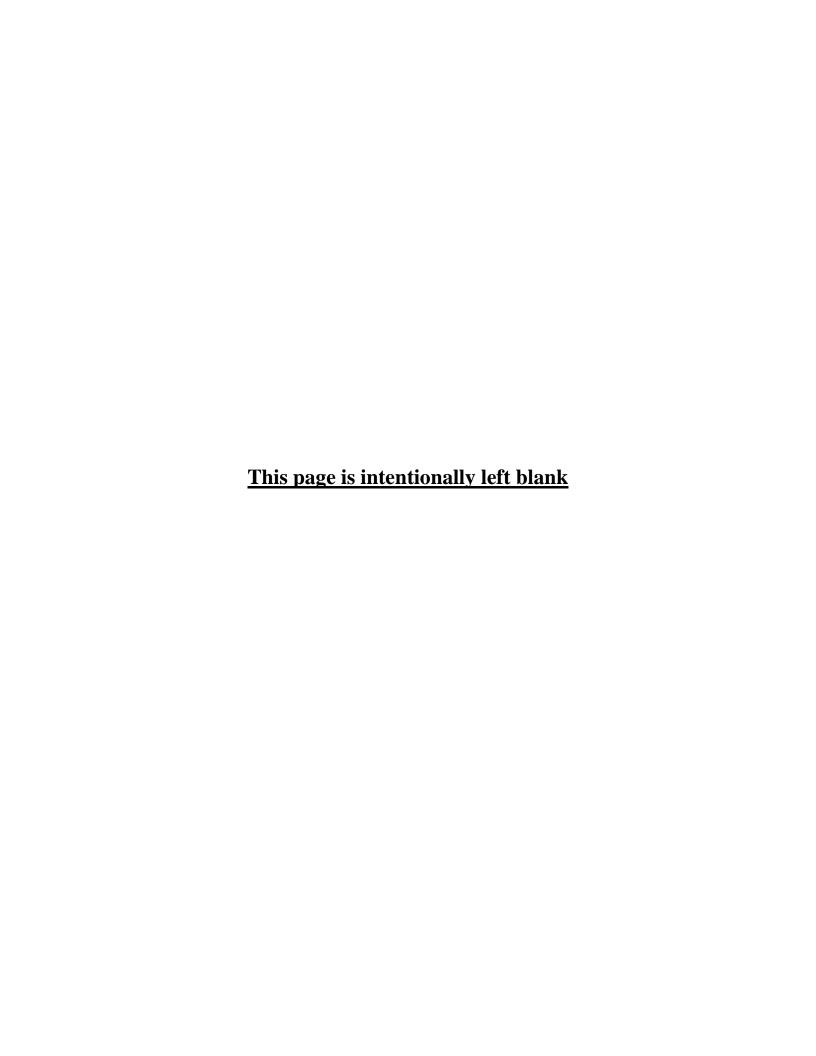
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT PACKET

August 1, 2017	0.0
DATE	REVISION

Kansas Department of Health and Environment

Bureau of Water, Industrial Programs Section 1000 SW Jackson, Suite 420 Topeka, KS 66612-1367 (785) 296-5545

Email address: kdhe.stormwater@ks.gov



EXECUTIVE SUMMARY

Purpose of this General NPDES Permit

The purpose of this general permit is to implement the Federal Water Pollution Control statutes and regulations; to permit discharges of stormwater runoff from construction sites subject to National Pollutant Discharge Elimination System (NPDES) permit requirements; and to protect the waters of the State from sediment and other contaminants.

What is Covered

This permit covers the discharge of stormwater runoff from construction activities that may disturb a cumulative total area equal to or greater than one (1.0) acre or from construction activity that is part of a larger common plan of development or sale that may disturb a cumulative total area equal to or greater than one (1.0) acre. Owners or operators of construction activities which discharge stormwater runoff and which may disturb an area equal to or greater than one (1.0) acre or are part of a larger common plan of development must receive authorization to discharge stormwater runoff from construction activities under this NPDES general permit.

Owners or operators of construction activities which disturb less than one acre (<1.0 acre) and which are not part of a larger common plan of development or sale must have authorization to discharge stormwater runoff from construction activities under this NPDES general permit when KDHE believes the water quality impact warrants consideration.

Subdivision developments are considered to be a larger common plan of development or sale regardless of the size, ownership, or number of lots or parcels within the development. Each subdivision requires a permit to discharge stormwater if construction activities during the life of the development may disturb a cumulative total area equal to or greater than one (1.0) acre. New owners of lots or parcels that are less than 1 acre in size and are within an authorized larger common plan of development must either complete a KDHE Individual Lot Certification (ILC) or have similar wording included in the lot purchase contract. The ILC is an agreement between the new owner of the lot or parcel and the permittee to implement the SWP2 Plan and the conditions of the NPDES general permit cooperatively. For lots or parcels that are equal to or greater than one (1.0) acre in size, the new owner must request separate Authorization for coverage under the construction stormwater general permit unless the lots or parcels are for construction of residential homes, in which case the ILC procedure may be utilized.

How to Obtain a Permit

A request for Authorization for coverage under the construction stormwater general permit is made by fully completing and submitting a construction stormwater "Notice of Intent" (NOI) form, the \$60 permit fee, and all needed supporting documents. The NOI form is a request for coverage under the requirements and conditions of the Kansas "Stormwater Runoff from Construction Activities General Permit". The form and the instructions for completing the form are available upon written request from the Kansas Department of Health and Environment or may be downloaded from the KDHE Stormwater Website (www.kdheks.gov/stormwater). The NOI needs to be sent to KDHE at least 60 days before starting construction. KDHE will make every effort to either authorize the construction activities within 60 days or provide comments on application or Stormwater Pollution Prevention Plan deficiencies. Construction site soil disturbing activities may commence only when the owner or operator receives an Authorization for the construction activity from KDHE Bureau of Water.

Authorization for the construction activity will be indicated on the NOI form. Upon authorization of the construction activity and associated stormwater discharges a Kansas permit number and a Federal permit number will be assigned to the construction project and indicated on the NOI form. A signed and dated copy of the Authorization will be provided to the owner or operator.

EXECUTIVE SUMMARY

What the Permit Costs

The permit fee is established by regulation (K.A.R. 28-16-56 et seq. as amended). At the time this information packet was developed, the permit fee for this general permit for stormwater runoff from construction activities was \$60 per year.

What the Permit Requires

The primary requirement of the general permit is for the permittee to develop and implement a Stormwater Pollution Prevention (SWP2) Plan. The SWP2 Plan must contain certain items that are specified in the general permit including the "Best Management Practices" that will be utilized to control erosion and sediment discharges and reduce the potential for contamination of the stormwater runoff associated with construction activities.

When the soil disturbing activities are completed and final stabilization of the site is achieved, the permittee must notify KDHE to terminate the authorization to discharge. To maintain Authorization to discharge stormwater runoff from construction activities the permittee will need to pay an annual permit fee, as specified in K.A.R. 28-16-56 et seq., until final site stabilization is obtained and Authorization is terminated.

The permittee is required to comply with all of the applicable provisions, requirements, conditions, and limits listed in the general permit. This summary is provided for information only and does not describe all of the applicable requirements in the general permit.

Availability of Forms and Information

Copies of all forms, references, and the NPDES general permit can be downloaded from the <u>KDHE Stormwater Website</u> at http://www.kdheks.gov/stormwater.

Copies of all forms, references and the NPDES general permit requirements may also be obtained by writing to:

Kansas Department of Health and Environment Bureau of Water - Industrial Programs Section 1000 SW Jackson, Suite 420 Topeka, KS 66612 – 1367

or by e-mail to:

kdhe.stormwater@ks.gov

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

BUREAU OF WATER



KANSAS WATER POLLUTION CONTROL

AND

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES

<u>GENERAL PERMIT</u>

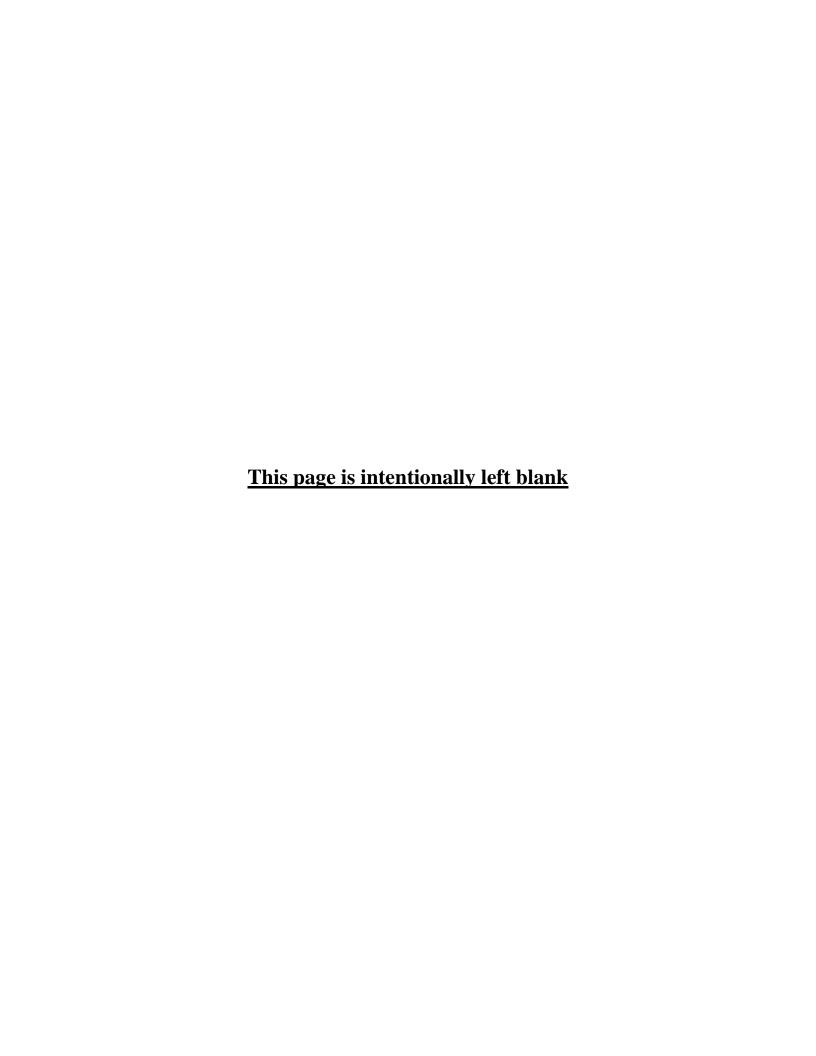


Table (of Conte	ents		Page			
Genera	al Permi	Issuan	ce	1			
Author	ized Act	ivity Des	scription	2			
Preface							
Part 1	-	Who M	Must Obtain Authorization To Discharge	3			
	1.1	Activiti	es that Do Not Require Permit Coverage	4			
Part 2	-	What 7	This Permit Covers	4			
Part 3	-	What 7	This Permit Or The Rainfall Erosivity Waiver Does Not Cover	5			
	3.1	Individ	ual Permits Required Due to Denial or Non-compliance	7			
Part 4	-	How to	o Apply	7			
Part 5	-	Startin	g Construction Activity	8			
Part 6	-	Contin	uing Coverage - Annual Permit Fee and Renewal Requirements	8			
	6.1	Contin	uing Coverage – Authorization under Previous Permit	8			
	6.2	Reque	est for an Individual NPDES Permit	9			
	6.3	Contin	uing Coverage Authorization after Permit Expiration	9			
Part 7	-	Stormwater Pollution Prevention Plan Requirements and Guidelines					
	7.1	General SWP2 Plan Requirements					
	7.2	Conter	nts of SWP2 Plan	10			
		7.2.1	Site Description	10			
		7.2.2	Description of Best Management Practices	10			
		7.2.3	Detailed SWP2 Plan Requirements	10			
		7.2.4	Steep Slope Stabilization Requirements	11			
		7.2.5	Temporary and Permanent Non-Structural BMPs	11			
		7.2.6	Temporary and Permanent Structural BMPs	12			
		7.2.7	Sedimentation Basins	12			
		7.2.8	Permanent Stormwater Controls	12			
		7.2.9	Additional Site Management BMPs	12			
		7.2.10	Site Inspections by Permittee	13			
	7.3	Modific	cations and Amendments to SWP2 Plan	14			
		7.3.1	Modification of Control Measures and Management Practices	14			
		7.3.2	Amendment of the SWP2 Plan	14			
	7.4	Contra	actor Notification	15			
Part 8	-	Transf	er of Ownership	15			
	8.1	Transf	er of Entire Permitted Area	15			
	8.2	Partial	Permitted Area Transfer of One (1.0) or More Acres	15			
	8.3		Permitted Area Transfer of Less than One (1.0) Acre or dential Home Lot	15			

National Pollutant Discharge Elimination System (NPDES) Stormwater Runoff from Construction Activities General Permit

Permit No. S-MCST-1703-1 Federal Permit No. KSR100000

Part 9	-	Project Completion	16
Part 10	-	General Requirements of This Permit	16
	10.1	Records	16
	10.2	Contact Address	16
	10.3	Duty to Comply	17
	10.4	Duty to Provide Information and Site Access	17
	10.5	Signatory Requirements	17
	10.6	Chemical and Sewage Spills	17
	10.7	Hazardous Substance and Oil Spill Reporting	17
	10.8	Sewage, Wastes, Materials, and Substances Spill Reporting	18
	10.9	Requiring a Different NPDES Permit	18
	10.10	Electronic Data Monitoring Report	18
Part 11 -		Standard Conditions	18
	11.1	Proper Operation and Maintenance	18
	11.2	Severability	19
	11.3	Permit Modifications and Terminations	19
	11.4	Change in Discharge	19
	11.5	Discovery During Construction	19
	11.6	Removed Substances	19
	11.7	Civil, Criminal and Administrative Liability	19
	11.8	Property Rights	19
	11.9	Duty to Mitigate	20
	11.10	Bypass	20
Endnote	es		20

Appendices

Appendix 1 Definitions & Acronyms

Appendix 2 Forms

- Notice of Intent Form (NOI) for Stormwater Runoff from Construction Activities
- Notice of Intent Instructions for Stormwater Runoff from Construction Activities
- Individual Lot Certification (ILC)
- Notice of Transfer of Owner/Operator form (NOTO)
- Notice of Termination form (NOT)

Please note:

The Department has provided several options for obtaining copies of these forms, but at this time the Department cannot accept electronic submittals (e-mail or fax) of completed forms. Original copies of all forms must be received before permit/exclusion requests can be processed.

Upon request, KDHE will provide copies of State published information. EPA and/or NTIS contact information will be provided in response to requests for Federal Publications.

Kansas Water Pollution Control General Permit and Authorization to Discharge

STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES

Under the National Pollutant Discharge Elimination System

Pursuant to the Provisions of Kansas Statutes Annotated 65-164 and 65-165; the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq.; the "Clean Water Act"); and the Kansas Surface Water Quality Standards (K.A.R. 28-16-28 et seq.); this NPDES general permit provides the requirements and conditions under which the permittee is authorized to discharge stormwater runoff from construction activities.

Coverage is provided and construction Stormwater discharge is authorized when the Kansas Department of Health and Environment (KDHE) issues an Authorization to discharge stormwater runoff from construction activities until the Authorization is revoked/terminated. A signed and dated copy of the Authorization will be provided to the permittee.

Upon Authorization, the Permittee is allowed to discharge stormwater runoff from construction activities described in the Notice of Intent for Stormwater Runoff from Construction Activities and supporting documents in accordance with the requirements and conditions of this NPDES General Permit and the Stormwater Pollution Prevention Plan developed for the identified construction activities.

This NPDES general permit is effective <u>August 1, 2017</u> through <u>July 31, 2022</u>.

(signed by Secretary Susan Mosier, MD)
Secretary, Kansas Department of Health and Environment

July 14, 2017
Date

AUTHORIZED ACTIVITY DESCRIPTION:

Construction Activities

Construction activities consist of any activity (e.g. clearing, grubbing, excavating, and grading) which disturb a cumulative total of one (1.0) or more acres or when the site is a part of a larger common plan of development or sale which will disturb a cumulative total of one or more acres.

Owners or operators of construction activities which disturb less than one acre (<1.0 acre), and which are not part of larger common plan of development or sale, must have authorization to discharge stormwater runoff from construction activities under this NPDES general permit when KDHE notifies the owner or operator that the water quality impact from discharge of stormwater runoff from construction activity warrants consideration because the proposed construction activities constitute a significant pollution potential.

Permit coverage is not required for routine maintenance (see endnote 7, page 21), for certain demolition and linear projects and for certain project support activities as specified in Part 1.1 of this permit.

Upon issuance of this NPDES General Permit, owners or operators who intend to engage in construction activities as indicated above shall obtain authorization to discharge stormwater runoff under this NPDES general permit prior to commencing construction activities at the project site. To obtain authorization to discharge stormwater runoff, the owner or operator of a construction site needs to submit a Notice of Intent (NOI) for the discharge of stormwater runoff from construction activities at least 60 days prior to removing vegetation or disturbing soil at the site to avoid any unplanned delays in the start of construction. The NOI form is a request for coverage under the requirements and conditions of this NPDES general permit. To obtain authorization, the NOI form and supporting documents shall be submitted in accordance with Part 4 of this NPDES general NPDES permit. Upon acceptance of the NOI and supporting documents, KDHE will indicate the authorization for coverage under the NPDES general permit on the first page of the NOI form, assign permit numbers, and indicate the KDHE issuance of the Authorization with the Department Secretary's signature. The owner or operator is then authorized to discharge stormwater runoff from construction activities under the provisions of this NPDES general permit and may commence construction activities at the site described in the NOI and supporting documents in accordance with the terms and conditions expressed in this NPDES general permit and in conformance with the stormwater pollution prevention plan developed for the site.

Owners or operators who received authorization to discharge under the previous Stormwater Runoff from Construction Activities General Permit S-MCST-0312-1, may continue to operate under those permit provisions, conditions, requirements, limits, site specific authorized Best Management Practices (BMPs), and site specific authorized Stormwater Pollution Prevention Plan (SWP2 Plan) until 18 months after permit issuance as provided for in Part 6.1 of this permit.

Rather than submitting an NOI, owners or operators who intend to engage in construction activity that will disturb between one (1) and five (5) acres may request a rainfall erosivity waiver. To receive a waiver, the owner or operator of a construction site shall submit a rainfall erosivity waiver application form at least 60 days prior to removing vegetation or disturbing soil at the site. To be authorized, the small construction activity must have a low predicted rainfall potential that corresponds to a rainfall erosivity factor of less than 5 as calculated by the Revised Universal Soil Loss Equation [RUSLE]. The rainfall erosivity waiver application form is available on the Kansas Stormwater Website (see endnote 1, page 20). Copies can also be obtained by writing or e-mailing KDHE at the addresses in Part 10.2. Prior to commencing construction, the owner or operator must receive a copy of the authorized rainfall erosivity waiver from KDHE prior to initiation of construction activities at the site.

Any owner or operator who is subject to NPDES permit requirements for stormwater runoff from construction activities and who discharges stormwater runoff from construction activities prior to receiving authorization from KDHE is in violation of both State and Federal laws.

PREFACE

The purpose of this NPDES general permit is to implement the Federal Water Pollution Control statutes and regulations; permit discharges of stormwater runoff from construction sites subject to National Pollutant Discharge Elimination System (NPDES) permit requirements; and to protect waters of the State from sediment and other contaminants.

The issuance of an authorization to discharge under this NPDES general permit allows a project owner or operator, after implementation of the project site stormwater pollution prevention plan, to commence construction site soil disturbing activities that can produce or potentially produce a discharge of contaminated stormwater runoff to surface waters of the State of Kansas. In the absence of information demonstrating otherwise, KDHE expects that compliance with provisions and conditions in this permit will result in the discharge of stormwater being controlled as necessary to meet applicable Kansas surface water quality standards.

This NPDES general permit does not authorize the placement of fill materials in a flood plain, the obstruction of stream flow, directing stormwater runoff across private property, increasing stormwater runoff flow, changing the channel of a defined drainage course, etc. This NPDES general permit is intended to address only the quality of the stormwater runoff and to minimize off-site migration of sediments or other pollutants.

KDHE administers a number of regulatory programs that may preclude the initiation of construction activities until such time as a specific permit is issued or authorization is granted. This NPDES general permit authorization solely addresses NPDES stormwater discharge requirements for construction activities. It is the obligation of the permittee to ensure compliance with all other KDHE, State, Federal and local statutory and regulatory requirements.

Owners or operators seeking coverage under this NPDES general permit which have the potential to impact threatened or endangered species or historical sites can obtain information regarding regulatory requirements or special conditions which may be applicable to the activities covered by this permit from the Kansas Department of Wildlife, Parks, and Tourism (KDWP&T) or the Kansas Historical Society (KSHS) respectively (See NOI instructions for contact information).

Other appropriate agencies should be contacted to determine the need for additional permits, authorizations, or requirements, if any. In particular the applicant should contact the local municipal separate storm sewer system

(MS4) agency (see endnote 2, page 20). Other agencies the applicant should contact include the United States Army Corps of Engineers; Kansas Department of Agriculture, Division of Water Resources; and any other local governments or agencies that are not listed herein that may have jurisdiction.

Authorization to Discharge under this NPDES general permit does not constitute approval of the project under the provisions of the Kansas Water Projects Environmental Coordination Act, and does not relieve the permittee of the responsibility to comply with the requirements of other Agencies prior to commencement of construction activities.

Part 1. WHO MUST OBTAIN AUTHORIZATION TO DISCHARGE

Owners or operators of construction activities which may disturb one (1.0) or more acres of soil or are part of a larger common plan of development or sale which may disturb a cumulative total of one (1.0) or more acres of soil must obtain authorization to discharge stormwater runoff from construction activities.

Owners or operators of construction activities which disturb less than one acre (<1.0 acre) of soil, and are not part of larger common plan of development or sale, must have authorization to discharge stormwater runoff from construction activities under this NPDES general permit when KDHE believes the water quality impact warrants consideration or KDHE determines the construction activities constitute a significant pollution potential (i.e., sites that will disturb contaminated soils, contaminated groundwater, or sites adjacent to sensitive waters).

Soil disturbing activities where contaminated soils or contaminated groundwater may be present on the site are reviewed by KDHE on a case-by-case basis and may require coverage under this NPDES general permit or an individual permit even if less than one acre (< 1.0 acre) of soil is disturbed. For sites where contaminated soil or groundwater is present, contact KDHE Bureau of Water-Industrial Programs Section at (785) 296-5549 for a determination on the need for coverage under this NPDES general permit.

Platted subdivision projects must obtain coverage for all areas of the subdivision site. Subdivision projects that have roads and/or utilities constructed under separate contract (e.g., city assessment district) may need to have two concurrent discharge authorization requests (NOIs) for coverage under the NPDES general permit submitted. The owner (developer) of the subdivision project must maintain coverage for the individual lot construction sites. Owners that have control over the construction activities

of the entire subdivision site, including roads and utilities, need only submit one discharge authorization request (NOI) for coverage under the NPDES general permit.

Soil disturbing activities in response to a public emergency (e.g., tornado, earth quake, flood, ice storm, rail or highway incidents) where the related work requires immediate soil disturbance to avoid imminent endangerment to the public health or the environment is allowed without formal submittal and authorization by KDHE if the owner or operator implements soil erosion and sediment control as soon as possible after the emergency conditions have been resolved and a Notice of Intent application form for coverage under this permit is submitted within 30 days after the start of emergency soil disturbing activities showing the areas disturbed and the soil and erosion controls provided.

1.1 Activities that Do Not Require Permit Coverage – Construction activities do not include the following types of projects:

- a. routine maintenance that disturbs less than 5 acres (see endnote 7, page 21);
- structural demolition activities, including filling of basements, removal of debris and removal and replacement of pavement (even when exposing erodible soils or subsoils), which do not involve soil excavation, grading, clearing, grubbing or other soil disturbing construction activities;
- c. the linear opening of soil in a single line of two (2) feet or less in width utilizing soil plow trenching equipment that immediately closes the opening as part of the plow equipment's normal operation by filling the opening with removed soil or by the closure of the sidewalls to their original configuration after passage of the plow; however, areas disturbed by soil plow operations that open a width of more than one (1) foot must immediately be seeded with an appropriate variety of vegetative cover or stabilized with mulch or a similarly effective soil stabilizing BMP after passage of the plow equipment.

Soil disturbing activities associated with construction support activities, such as concrete batch plants, asphalt plants, soil disposal sites and borrow sites at or immediately adjacent to the supported project site are considered part of the common plan of development for the project and will need coverage under this permit through separate authorization if the support activity is not included in the supported project's stormwater pollution prevention plan. Asphalt and concrete batch plants might also need to obtain a separate water pollution control permit for wastewater generated by these facilities.

Support activities such as concrete batch plants, asphalt plants and areas of offsite soil borrow and soil disposal/fill activities may be treated as stand-alone construction projects which are not considered part of the supported project's common plan of development if runoff from the support activity site is not anticipated to significantly impact the same surface waters and stream segments that receive runoff from the supported project site.

Part 2. WHAT THIS PERMIT COVERS

Coverage under this NPDES general permit authorizes the discharge of stormwater runoff from construction activities for sites where the discharge point is located in Kansas and for discharges and construction activities that are conducted in accordance with the provisions and requirements of this permit and in accordance with the site specific stormwater pollution prevention plan from the date of Authorization until the site conditions meet the closure requirements specified in Part 9 of this permit and a Notice of Termination (NOT) is received by KDHE or the permit is revoked/terminated or placed on inactive status for cause by KDHE.

Proposed new or existing unpermitted construction stormwater dischargers, in regard to antidegradation, are eligible for authorization under this general permit to discharge to a Tier 1, 2, or 2½ Water only if the discharge will not lower the water quality of the applicable water. In the absence of information demonstrating otherwise, KDHE expects that development, installation, operation, appropriate maintenance of site specific BMPs and the SWP2 Plan as well as compliance with the provisions, conditions, requirements, and limits of this general permit will result in discharges that will not lower the water quality of the receiving surface water.

Proposed new or existing unpermitted construction stormwater dischargers that will discharge directly into Tier 3 waters (Outstanding National Resource Waters) are, in regard to antidegradation, considered temporary discharges and eligible for authorization under this general permit to discharge stormwater from construction activities but only if the discharge will not lower the water quality of the receiving water, all enhanced (significantly better and more reliable) levels of controls and best management practices are evaluated and implemented to minimize off-site migration of sediments or other pollutants. In the absence of information demonstrating otherwise, KDHE expects that development, installation, operation, appropriate maintenance of enhanced site specific BMPs and the SWP2 Plan as well as compliance with the provisions, conditions, requirements, and limits of this general permit will result in discharges that will not lower the water quality of the receiving surface water and provide the highest protection reasonably available.

This NPDES general permit also authorizes the following non-stormwater discharges from construction sites during the life of the project:

- Flushing water hydrants and potable water lines provided appropriate sediment and erosion controls are implemented,
- Water used for rinsing streets or structures that does not contain cleansers, detergents, solvents or additives;
- 3. Irrigation to establish vegetation;
- 4. Discharges of uncontaminated non-turbid groundwater provided that appropriate sediment and erosion controls are implemented;
- 5. Discharges from emergency fire-fighting activities;
- 6. Water used to control dust;
- Uncontaminated air conditioning or compressor condensate:
- 8. Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated groundwater;
- Uncontaminated construction dewatering wastewaters that have been treated by an appropriate control such as bag filters or equivalent technology. Wastewaters that have been treated by an appropriate control but still contain trace amounts of sediment are not considered contaminated; and
- Discharges of stormwater listed above, or authorized non-stormwater commingled with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization.

Part 3. WHAT THIS PERMIT OR THE RAINFALL EROSIVITY WAIVER DOES NOT COVER

This NPDES general permit does <u>not</u> authorize or address:

 A discharge of stormwater runoff from construction activities which violates the provisions of this NPDES general permit;

- 2. Construction activities on sites within Kansas which are located on Indian Country lands, (see endnote 3, page 20);
- Construction activities which may discharge stormwater runoff one-half stream mile or less from a Critical Water Quality Management Area; an Exceptional State Water; a Special Aquatic Life Use Water; or to an Outstanding National Resource Water unless KDHE specifically grants coverage by this NPDES general permit (see endnote 4, page 20).
- Construction activities that result in the discharge of stormwater runoff which violates the Kansas Surface Water Quality Standards;
- Construction activities that result in the discharge of stormwater runoff which violates the applicable requirements of a Municipal Separate Storm Sewer program or local stormwater pollution prevention program;
- Construction activities that may adversely affect threatened or endangered species as listed in K.A.R. 115-15-1 et seq. unless the KDWP&T has been specifically consulted with;
- Construction activities that may affect any identified archeological sites or historic sites listed or eligible for listing on the National Register of Historic Places unless the KSHS has been specifically consulted with;
- 8. Projects that are exempt under the Oil & Gas Exemption (see definition). However, if coverage under the NPDES general permit is requested, an Authorization will be issued and permit requirements will be enforced. However, dewatering discharges (e.g., well point or groundwater dewatering wells) and trench dewatering from groundwater infiltration are not exempt activities under the Oil and Gas Exemption and require KDHE approval, permitting, or authorization under the NPDES general permit. KDHE will review discharges based on management by appropriate controls, discharge quality and quantity, and proposed location of the discharge to determine the need for approval or permitting requirements on a case-by-case basis. Acceptable uncontaminated discharges of groundwater dewatering shall meet Kansas Surface Water Quality Standards, control sediment by employing bag filters or equivalent technology, and prevent down gradient scouring and soil erosion.

Effective August 1, 2017 Page 5 of 21

- 9. Agricultural construction activities are generally exempt unless construction of a drainage structure will drain an area that exceeds the definition of a stream as defined by the Kansas Department of Agriculture under K.A.R. 5-45-1(t), or the construction is for a livestock pen or feature related to concentrated animal feeding operations or a structure such as a garage, barn, shed, stall, storage building, residence or office;
- 10. The discharge of stormwater from sites where construction activities resulting in the disturbance of one or more acres or are a part of a common plan of development or sale which may disturb a cumulative total of one or more acres where a discharge is directed to an "impaired water" where the impairment for total suspended solids, nitrogen, or phosphorous or a waterbody for which KDHE has developed, and EPA has approved, a Total Maximum Daily Load (TMDL) for total suspended solids, nitrogen, or phosphorous. Authorization for coverage under this general permit will only be granted if the stormwater discharge will not cause or contribute to a violation of surface water quality standards and the permittee implements, operates, and maintains appropriate BMPs, erosion and sediment control measures, and complies with all provisions of this NPDES general permit. In the absence of information demonstrating otherwise, KDHE expects that compliance with the provisions, conditions, and limits in this general permit will result in stormwater discharges being controlled, as necessary, to meet applicable water quality standards and satisfy current provisions in Kansas developed and EPA approved TMDLs directed at total suspended solids and indirectly address releases associated with nitrogen and phosphorus. Per the Kansas TMDLs addressing total suspended solids, KDHE reviews of erosion and sediment control Plans, BMPs, and the SWP2 Plans will concentrate on trying to protect and maintain buffers and vegetative filter strips along and immediately adjacent to streams and lakes and to minimize construction impacts on streams. accordance with the provisions of the TMDLs, KDHE will also concentrate on trying to identify projects operating without an NPDES permit or projects which do not employ effective erosion and sediment control techniques. KDHE may impose additional waterquality based limitations on a site-specific basis or require coverage under an NPDES individual permit if information in the NOI and associated materials, required reports, site inspections conducted by KDHE or EPA, or from other sources indicate that stormwater discharges from the site are not controlled as necessary to meet applicable water quality

- standards or the provisions of a specific TMDL for the waterbody receiving the discharge.
- Discharges of water mixed with non-stormwater discharges, unless they are listed as allowable nonstormwater discharges in Part 2 above or are determined by KDHE as not requiring authorization;
- 12. Discharges of fill or dredged materials regulated by part 401 or 404 of the Clean Water Act unless permits under 401 or 404 so stipulate;
- Stormwater discharges associated with construction activities that have been covered under an individual permit or a different NPDES general permit, unless authorized by KDHE Bureau of Water;
- 14. Stormwater and/or allowable non-stormwater discharges associated with construction activities that are discharged to a combined sewer system; and
- 15. The modification of stormwater drainage (the routing of flows or the change in quantity of flow) onto or across private property.

This NPDES general permit does not relieve the permit holder of the obligation to obtain other approvals, permits, licenses, or documents of sanction that may be required by other federal, state, or local government agencies.

This NPDES general permit also does not authorize any other discharge of sewage, pollutants or wastewater to waters of the State including for example:

- Hazardous substances or oil from an on-site spill or improper handling and disposal practices;
- b. Wash and/or rinse waters from concrete mixing equipment including ready mix concrete trucks;
- Wastewater generated from wet air pollution control equipment including asphalt plants, or the containment of asphalt plant scrubber water in lined ponds;
- d. Contaminated groundwater (see definitions);
- e. Wastewater from washout and clean out of stucco, paint, form release oils, curing compounds and other construction materials;
- f. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
- g. Soaps or solvents used in vehicle or equipment washing; or

Effective August 1, 2017 Page 6 of 21

 Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, unless managed by appropriate controls.

KDHE reserves the right to deny coverage under this NPDES general permit to applicants for stormwater runoff from construction or earth disturbing activities at sites which have contaminated soils which will be disturbed by the construction activity or have contaminated groundwater which could be discharged by the construction activity.

3.1 Individual Permits Required Due to Denial or Non-Compliance -

If the NOI for coverage under this NPDES general permit is denied by KDHE, then the applicant is not eligible for coverage under this NPDES general permit and shall apply for an individual NPDES permit.

The permittee shall apply for an individual NPDES permit at least 180 days prior to commencing construction activities. Construction activities as defined in this permit shall not commence until the individual NPDES permit is issued.

Part 4. HOW TO APPLY

The owner or operator of a construction site needing to discharge stormwater runoff from construction activities shall submit a complete request for coverage under this NPDES general permit to obtain authorization and receive Authorization under this NPDES general permit from KDHE prior to removing vegetation or disturbing soil at the site.

A complete request for Authorization to discharge stormwater runoff from construction activities under this NPDES general permit must be submitted or the request will not be processed. A complete request for Authorization includes:

- An NOI form (construction stormwater) with all information provided and an original authorized signature;
- A check for the first year of the annual permit fee made payable to "KDHE". Per K.A.R. 28-16-56 et seq., as amended, the current annual permit fee for this NPDES general permit is \$60;
- An area map delineating the boundary of the construction site and the general topographic features of the area at least one mile beyond the construction site boundary and indicating the location

of all streams and other surface water bodies within one mile of the site boundary that receive runoff from the construction site:

- A summary of the sequence of major soil disturbing activities including installation of the corresponding stormwater management and pollution control features;
- A detailed site plan covering the entire scope of the project construction activities showing the existing contours, proposed contours, erosion and sediment control features, and locations where stormwater runoff leaves the construction site:
- A narrative summary of the erosion and sediment control(s) and other best management practices that will be utilized to eliminate or minimize contamination of stormwater runoff from the construction activities;
- Design calculations for any proposed sedimentation basin, if applicable; and
- Copies of letters or e-mails documenting coordination with appropriate local, state or federal agencies.

KDHE recommends the NOI and supporting documentation be submitted at least 60 days prior to start of construction activities to avoid unplanned delays in the start of construction. Submittal of a Notice of Intent (NOI) to discharge Stormwater Runoff from Construction Activities and all supporting documentation indicated above, even 60 days after submittal, does not provide automatic coverage under the NPDES general permit. Coverage under this NPDES general permit begins when KDHE authorizes the discharge of stormwater runoff from construction activities identified in the NOI and supporting documentation.

An NOI form can be downloaded from the <u>KDHE</u> <u>Stormwater Website</u> (see endnote 1, page 20) or obtained from KDHE at the address given in Part 10.2 of this NPDES general permit.

If the construction activities will be conducted within the boundaries of a Municipal Separate Storm Sewer System (MS4), the permittee shall submit a copy of the KDHE Authorization and all supporting documentation to the operator of the local MS4 and obtain any permits or approvals that may be required under the local Stormwater Management Program. A list of NPDES permitted MS4 operators which are required to develop a Stormwater Management Program is available on the KDHE Stormwater Website (endnote 2, page 20) or upon written request to KDHE Bureau of Water - Municipal Programs Section.

Upon KDHE's Authorization to discharge stormwater runoff from construction activities for the site indicated on the NOI and supporting documents, the owner or operator and, if appropriate, the company, corporation, partnership, or government entity they represent becomes the permittee under this NPDES general permit.

Part 5. STARTING CONSTRUCTION ACTIVITY

The owner or operator who has applied for coverage under this NPDES general permit shall not initiate construction activities and discharge or have the potential to discharge stormwater runoff from construction activities described in the NOI until receiving Authorization from KDHE for the discharge.

When the owner or operator receives KDHE's Authorization to discharge stormwater from construction activities, the owner or operator may commence construction activities at the site described in the NOI and supporting documentation under the provisions of this NPDES general permit and in accordance with the construction site stormwater pollution prevention Plan (SWP2 Plan).

A copy of the KDHE Authorized NOI and the project specific SWP2 Plan including the erosion and sediment control plan for the specific project shall be readily available at the construction site.

Part 6. CONTINUING COVERAGE - ANNUAL PERMIT FEE AND RENEWAL REQUIREMENTS

The permit holder shall pay an annual permit fee as specified in K.A.R. 28-16-56 et seq. as amended as long as stormwater discharges from the facility continue to meet the definition of stormwater discharges from construction activities. Make the check payable to "KDHE".

An annual invoice for the annual fee will be sent to the designated billing contact listed in the NOI. Payment of the annual permit fee is required to maintain continued coverage under this NPDES general permit until such time as a request for a transfer of ownership is received and accepted by KDHE or until the site is stabilized and a Notice of Termination (NOT) is received by KDHE or the permit is revoked/terminated.

KDHE reserves the right to revoke/terminate coverage under this NPDES general permit to applicants for stormwater runoff from construction or soil disturbing activities where annual payment for continuing coverage has not been received or reasonable application of best management practices or pollution controls have not been

implemented or maintained following notification by KDHE staff.

Authorization under this general permit will be placed on inactive status by KDHE without further notice for any of the following reasons:

- Failure to pay the annual permit fee after the mailing of the annual invoice and with no payment received for 3 months after the date of the invoice;
- b) Failure to provide KDHE with a valid current mailing address which results in an invoice or other KDHE correspondence being returned by the post office without a forwarding address.

Projects that have been inactivated will no longer have permit coverage under this general permit.

Projects for which a Notice of Intent has been submitted but not Authorized and for which a response to a KDHE request for additional documentation has not been received within one year of NOI submittal will be administratively closed.

Owners or operators of projects that have been placed on Inactive Status, administratively closed or denied Authorization and who want to obtain coverage under this general permit must submit a complete new request for Authorization in accordance with Part 4 of this permit.

6.1 Continuing Coverage Authorization under Previous Permit –

The permittee is not required to submit a new NOI for continuing coverage under the successor NPDES general permit unless modifications, changes or discoveries are made which may affect coverage under the successor NPDES general permit or the information in the current NOI is inaccurate, needs to be updated, or KDHE requests the submission of a new NOI.

Owners or operators of constructions activities that received KDHE authorization for coverage under the previous Kansas Water Pollution Control and National Pollutant Discharge Elimination System General Permit (General Permit No. S-MCST-0312-1) prior to the effective date of this permit may continue to operate under those permit provisions, conditions, requirements, limits, site specific authorized Best Management Practices (BMPs), and site specific authorized Stormwater Pollution Prevention Plan (SWP2 Plan) for a period of 18 months after issuance of this permit. If by 18 months after the effective date of this permit all construction activities authorized by General Permit No. S-MCST-0312-1 have not been completed, the construction site stabilized, a

Notice of Termination (NOT) completed and submitted in conformance with the permit requirements and the Notice of Termination received by KDHE, then prior to the end of this 18-month period the permittee shall modify or amend the current SWP2 Plan in conformance with all permit provisions, conditions, requirements, and limits as established in this permit. The permittee shall also implement the modified or amended SWP2 Plan prior to the end of this 18-month period and shall install, modify and continue maintaining all BMPs as specified in the modified or amended SWP2 Plan. The intent of this 18month transition period is to enable permittees that received authorization for construction activities under the previous general permit (S-MCST-0312-1) time to either complete construction activities and terminate permit coverage or retain the services of a licensed professional engineer, geologist, architect, landscape architect, or a Certified Professional in Erosion and Sediment Control (per Part 7.1 of this permit) to modify the SWP2 Plan and implement revised BMPs in conformance with all provisions, conditions, requirements, and limits of this which includes EPA's Construction and Development Effluent Guideline Standards (40 CFR 450) in effect at the time this permit was issued.

6.2 Request for an Individual NPDES Permit -

On and after the effective date of this NPDES general permit, the permit holder must comply with the terms and conditions of this permit and continue paying the annual permit fee; or request an individual NPDES permit within 90 days after the publication of this permit. The facility will continue coverage under the previous NPDES general stormwater permit (General Permit No. S-MCST-0312-1) and comply with the provisions of the previous NPDES general permit until the individual NPDES permit is issued. If coverage under an individual permit is denied the owner or operator may continue to operate under General Permit S-MCST-0312-1 for 18 months after denial of the application for an individual permit and shall modify or amend the SWP2 Plan, implement the modified or amended SWP2 Plan and install appropriate BMPs in conformance with this permit within 18 months after said

6.3 Continuing Coverage Authorization after Permit Expiration –

This NPDES general permit will expire five (5) years from issuance. Should KDHE fail to issue a new NPDES general permit with an effective date on or before the expiration date of this permit, the conditions of this NPDES general permit continue in force until the effective date of a new NPDES general permit.

If the permittee wishes to continue construction activities regulated by this NPDES general permit after the expiration date of this permit, the permittee must continue to pay the annual fee, and continue to comply with the terms and conditions of this NPDES general permit until the effective date of the successor NPDES general permit.

A permittee who has a valid authorization to discharge stormwater runoff from construction activities under the conditions of this NPDES general permit will continue to be covered until the effective date of the new NPDES general permit and shall comply with the conditions of this NPDES general permit until the effective date of the successor NPDES general permit. Upon the effective date of the successor NPDES general permit, the permittee shall continue to comply with the terms and conditions of the successor NPDES general permit or obtain coverage for construction stormwater discharges under alternative provisions of this permit.

Part 7. STORMWATER POLLUTION PREVENTION PLAN REQUIREMENTS AND GUIDELINES

Before initiating construction activities the permittee shall develop a Stormwater Pollution Prevention Plan (SWP2 Plan) which is specific to the construction activities which are to be employed at the site authorized by this NPDES general permit to discharge stormwater runoff. The permittee shall fully implement the provisions of the SWP2 Plan required under this part as a condition of this NPDES general permit throughout the term of the construction project.

The purpose of the SWP2 Plan is to ensure the design, implementation, management, and maintenance of "Best Management Practices" (BMPs) in order to eliminate or minimize erosion, sediment; and other pollutants in stormwater runoff from construction activities; comply with the Kansas Surface Water Quality Standards; and ensure compliance with the terms and conditions of this NPDES general permit.

The permittee shall select, install, utilize, operate, and maintain effective BMPs in accordance with best professional judgment, generally accepted scientifically defensible guidance, and the concepts and methods described in Environmental Protection Agency (EPA) document number EPA 832-R-92-005, entitled Stormwater Management for Construction Activities -Developing Pollution Prevention Plans and Best Management Practices, published in September, 1992 and EPA document number EPA 833-R-06-004 entitled Developing your Stormwater Pollution Prevention Plan, A Guide for Construction Sites published in May, 2007 (see endnote 5, page 20). The permittee is not limited to the BMPs provided in the EPA guidance manuals. Other pollution or erosion controls must utilize practices with similar effectiveness, and the permittee should develop

BMPs with the goal of site specific effectiveness in mind.

7.1 General SWP2 Plan Requirements -

Stormwater Pollution Prevention (SWP2) Plans shall be developed and prepared under the supervision of a licensed Kansas professional engineer, geologist, architect, or landscape architect or a Certified Professional in Erosion and Sediment Control (see endnote 6, page 20). Please note: It is unlawful for a person to perform any assignment involving a specific technical profession unless licensed or specifically exempted by the Kansas Board of Technical Professions, and is qualified by education and expertise in that profession to perform such work.

The permittee shall ensure the BMPs and/or pollution controls are properly installed and maintained at the locations and relative timeframes specified in the SWP2 Plan. Margin or border BMPs, such as a buffer area or vegetation strips, to control stormwater runoff where it leaves the site boundary, shall be installed or marked for preservation before general site clearing is started. Stormwater runoff from disturbed areas which leave the site shall pass through an appropriate sediment control, such as a sedimentation basin, sediment trap, or silt fence prior to leaving the construction site.

7.2 Contents of SWP2 Plan

7.2.1 Site Description -

The permittee's SWP2 Plan shall include all of the information provided in the NOI. The SWP2 Plan shall expand upon the NOI information in order to make the SWP2 Plan a working document which contractors and site construction workers can use to guide the installation and maintenance of BMPs and pollution controls.

7.2.2 Description of Best Management Practices -

The permittee's SWP2 Plan shall include a description of the BMPs and/or pollution controls they will use at the site. The SWP2 Plan shall provide the following general information for each BMP and/or pollution control which will be used one or more times at the site:

- a physical description of the BMP and/or pollution control;
- the site and physical conditions which must be met for effective use of the BMP and/or pollution control;
- the BMP and/or pollution control installation/ construction procedures, including typical drawings; and
- operation and maintenance procedures for the BMP and/or pollution control.

The SWP2 Plan shall provide the following information for each specific instance where a BMP and/or pollution control is to be installed:

- where, in relation to other site features, the BMP and/or pollution control is to be located;
- when, in relation to each phase of construction, the BMP and/or pollution control will be installed; and
- what site conditions must be met before removal of the BMP and/or pollution control, if it is not permanent.

7.2.3 Detailed SWP2 Plan Requirements -

The SWP2 Plan must provide BMPs and/or pollution controls that, at a minimum, are designed, installed, and maintained to:

- (1) Control stormwater volume and velocity within the site to minimize soil erosion in order to minimize pollutant discharges.
- (2) Control stormwater discharges, including both peak flow rates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
- (3) Minimize the amount of soil exposed during construction activity;
- (4) Minimize the disturbance of steep slopes (slopes of forty (40) percent or greater, see definitions):
- (5) Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
- (6) Provide and maintain natural buffers around waters of the United States, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
- (7) Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
- (8) Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed:

- (9) Minimize discharges from stream crossings by immediately stabilizing the areas from bank to bank and providing appropriate controls to minimize any stream scour and providing down gradient sediment control from bore pit stockpiles;
- (10) Control discharges from sediment or soil stockpiles;
- (11) Minimize the generation of dust through the application of water or other dust suppression techniques;
- (12) Minimize off-site tracking of soils by utilizing wheel washing facilities or an appropriately designed construction entrance and exit. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge. Off-site track out shall be cleaned up at the end of each work day. Sites with contaminated soils must provide wheel washing and tanks for holding of the wash water, if feasible, or other equivalent practices if the vehicles can track the contaminated soil from the site;
- (13) Provide structures to divert significant flows of stormwater from off-site drainage, if feasible;
- (14) Reduce erosion of concentrated flows of stormwater in channelized drainage through the use of velocity dissipation devices, (e.g., check dams, riprap, and wattles), installation of channel liners (e.g., riprap, geotextiles, and erosion control blankets), or the combined use of both methods of erosion control; and
- (15) Provide storm drain inlet protection (such as rock bags) for inlets down gradient of disturbed project areas that are not fully stabilized or where construction activity will soon be started.

7.2.4 Steep Slope Stabilization Requirements -

When construction activities on steep slopes (slopes of forty (40) percent or greater, see definitions) cannot be avoided, the SWPP Plan must require the contractor to immediately initiate placement of appropriate erosion control BMPs in any exposed steep slope areas where construction activities have permanently or temporarily ceased, and will not resume for a period exceeding 7 calendar days. For vegetative cover areas, in addition to seeding, watering, mulching, and any other required activities related to the planting and establishment of vegetation, other appropriate erosion control practices such as geotextiles or erosion control mats shall be utilized. Diversion of concentrated or channelized stormwater flows around steep slopes or slope drains shall be utilized where feasible.

7.2.5 Temporary and Permanent Non-Structural BMPs

Examples of non-structural BMPs which the permittee should consider specifying in the SWP2 Plan include: temporary seeding, final seeding, mulching, geotextiles, sod stabilization, protection of existing vegetation for use as buffer strips (especially along drainage courses), protection of trees, preserving existing stream channels as overflow areas when channel shortening is allowed, soil stabilizing emulsions and tackifiers, mulch tackifiers, preservation of mature vegetation, stabilized site entrances/exits, wheel brushing or washing, clean-up of soils on roadways, dust control and other appropriate BMPs.

The permittee's SWP2 Plan shall require existing vegetation to be preserved where practical, and the time period for soil areas to be without vegetative cover is to be minimized to the extent practical.

Clearing and grubbing within 50 feet of a defined drainage course shall be avoided, if feasible.

Where changes to defined drainage courses are to occur as part of the project, clearing and grubbing within 50 feet of the defined drainage course shall be delayed until all materials and equipment necessary to complete the drainage change are on site.

Changes to defined drainage courses shall be completed as quickly as possible once the work has been initiated. The area impacted by the construction of the drainage course change is to be re-vegetated or stabilized to minimize the length of time the area is exposed.

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other soil disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. The disturbed areas shall be protected from erosion by stabilizing the area with mulch or other similarly effective soil stabilizing BMPs. Initial stabilization activities must be completed within 14 days after soil disturbing activities cease.

Stabilization of disturbed areas is not required if the intended function of a specific area of the site necessitates that it remain disturbed. Such areas include stockpiles of soil materials intended for a use that prohibits introduction of vegetation, mulch or other foreign materials into the soil, areas reserved for landscaping, including sod application, that prohibits the introduction of vegetation, mulch or other foreign materials prior to placement of final landscaping features, dirt tracks, courts and other amenities designed or otherwise intended to remain unstabilized, and disturbed floors and banks

below the anticipated pool elevation of ponds and basins. Appropriate sediment control measures shall be provided below all such areas where the intended function necessitates that the area remain disturbed.

Disturbed areas that exhibit ice, frozen soil conditions, or have a consistent snow cover extending across 70 percent or more of the area are considered to be temporarily stabilized until thawing occurs across the affected area. Stabilization of such iced, frozen or snow covered areas must be completed within 14 days following the first subsequent inspection required under Part 7.2.10 of this permit that finds the affected area thawed and no longer stabilized due to ice, frozen soil conditions or snow cover.

7.2.6 Temporary and Permanent Structural BMPs -

Examples of structural BMPs which the permittee should consider specifying in the SWP2 Plan include: diverting flows from undisturbed areas away from disturbed areas, silt (filter fabric or straw bale) fences, earthen diversion dikes, drainage swales, sediment traps, rock check dams, subsurface drains (to gather or transport water for surface discharge elsewhere), pipe slope drains (to carry concentrated flow down a slope face), level spreaders (to distribute concentrated flow into sheet flow), storm drain inlet protection and outlet protection, reinforced soil retaining systems, gabions, temporary or permanent sediment basins, and other appropriate BMPs.

7.2.7 Sedimentation Basins -

The permittee's SWP2 Plan shall require a sedimentation basin, where feasible, for each drainage area with 10 or more acres disturbed at one time.

The sediment basin needs to be designed and maintained to provide at least 3,600 cubic feet of storage per acre drained. Where use of a sediment basin of this size is impractical, the SWP2 Plan shall evaluate and specify other similarly effective BMPs to be employed to minimize erosion and control sediment. Where large areas of undisturbed or stabilized areas can drain into the sediment basin or in certain areas of Western Kansas, alternative design detention volumes can be used. See the definition of Sediment Basin Design Criteria for additional clarification and alternatives for sizing and volume requirements.

Outlet structures must be designed and constructed to withdraw water from the surface, unless infeasible. If infeasible, the reason it is infeasible shall be provided as a part of the NOI and SWPP Plan submittal to KDHE.

The permittee's SWP2 Plan shall require that the sediment basin be cleaned to ensure adequate detention is available. No more than 20 percent of the required

sediment basin capacity shall be taken up with sediment. The basin shall be maintained until less than 10 acres of area needing final stabilization within the drainage basin remains. If a sedimentation basin is removed, other appropriate and effective BMP's and/or pollution controls shall be provided, as needed.

The 3,600 cubic feet of storage area per acre drained criteria does not apply to flows from areas where such flows are diverted around both the disturbed area and the sediment basin.

The permittee's SWP2 Plan shall require both temporary and permanent sedimentation basins to have a stabilized emergency spillway to minimize the potential for erosion of the emergency spillway or sediment basin embankment.

7.2.8 Permanent Stormwater Controls -

If applicable, the permittee's SWP2 Plan shall include a description of the measures that will be installed during construction to control pollutants in stormwater runoff that will occur after construction activities have been completed. These would include drainage channels or systems; outlet control devices, detention basins, oil water separators, catch basins, etc. This NPDES general permit does not require the permittee or his contractors to operate or maintain these measures beyond the date of the Notice of Termination unless otherwise notified by KDHE.

7.2.9 Additional Site Management BMPs -

The permittee's SWP2 Plan shall address other BMPs, as required by site activities, to minimize or eliminate contamination of stormwater runoff. At a minimum, such measures must be designed, installed, implemented and maintained to:

- (1) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be free of detergents, soaps, or solvents and must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- (2) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater except where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use);

- (3) Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures;
- (4) Require the contractor to provide solid and hazardous waste management including: providing trash containers and regular site clean-up for proper disposal of solid waste such as scrap building material, product/material shipping waste, food containers, and cups; and providing containers and proper disposal for waste paints, solvents, and cleaning compounds;
- (5) Require portable toilets for proper disposal of sanitary sewage;
- (6) Require storing construction materials away from drainage courses and low areas;
- (7) Require containment berms and drip pans at fuel and liquid storage tanks and containers;
- (8) Provide procedures to eliminate or minimize the potential to discharge environmental contaminants from contaminated soil or groundwater; and
- (9) Provide procedures and practices to eliminate the potential to discharge wash and/or rinse waters from concrete mixing equipment including ready mix concrete trucks.

7.2.10 Site Inspections by Permittee –

The permittee shall ensure the entire construction site including but not limited to disturbed areas, BMPs, waste and construction storage areas, drainage areas, locations where stormwater can flow from the construction site, and temporarily stabilized areas is inspected on a regular schedule and, with the exception of Saturdays, Sundays, established Federal Holidays and the day after Thanksgiving, by the end of the next day following a rain event which results in a rainfall total of 0.5 inches or greater.

Rainfall totals used to establish when a construction site inspection is required shall be determined from local weather station reports of daily rainfall totals such as the 1200 GMT end-of-day totals available through the National Weather Service and their cooperative observers or from regularly scheduled on-site rain gauge monitoring performed and recorded each work day by project personnel. A site inspection is required whenever a rainfall total of 0.5 inches or greater is observed based a single monitoring event; or based on the cumulative total of two consecutive monitoring events when the rainfall total of the first monitoring event is less than 0.5 inches.

The permittee shall, upon initiation of construction activities, determine an initial routine inspection monitoring period based on the start date of construction activities and a routine monitoring frequency of either 14 days or a different monitoring frequency established in the SWP2 Plan that does not exceed 14 days. Subsequent routine inspection monitoring periods shall be established based on the chosen routine monitoring frequency and the initial inspection monitoring period determined at the start of construction, without regard to the dates of routine or rain event inspections that are conducted. At a minimum, a single routine or rain event site inspection shall be conducted within each routine inspection monitoring period.

For disturbed areas that have not been finally stabilized all installed BMPs and other pollution control measures shall be inspected for proper installation, operation and maintenance. Locations where stormwater runoff leaves the site shall be inspected for evidence of erosion or sediment deposition. Once a portion of the project area meets the final stabilization criteria specified in Part 9 of this permit, then no further inspection of that final stabilized portion is required provided that the area is identified in the SWP2 Plan as having obtained final stabilization; however, the permittee shall remain responsible to correct any conditions within such areas that are identified as contributing to the discharge of sediment or other pollutants from the project site.

A report of each regularly scheduled inspection and required rain event inspection shall be documented. The inspection report is to include the following minimum information: inspector's name, date of inspection, observations relative to the effectiveness of the BMPs, actions taken or necessary to correct deficiencies, listing of areas where construction operations have permanently or temporarily stopped, and observations of stormwater discharge locations with respect to the effectiveness of the upgradient BMPs. The inspection report shall be completed within 24 hours of the inspection excluding Saturdays, Sundays and previously specified holidays and shall be signed by the person performing the inspection.

Any deficiencies in the operation or maintenance, effectiveness, adequacy or coverage extent of all installed BMPs, temporary stabilization measures and other pollution control measures identified during the inspection shall be noted in the inspection report and corrected within seven calendar days of the inspection unless infeasible. The permittee shall promptly notify the site contractors responsible for operation and maintenance of BMPs of deficiencies. When correction of any noted deficiency within seven calendar days is infeasible, the inspection report shall document the reason why such

correction is infeasible and provide a specific timeframe for completing all needed maintenance and repairs of installed control measures and installation or modification of all control measures and management practices identified as missing, ineffective or inadequate as soon as feasible.

If weather or site conditions render access to any portion of the site to be unsafe or infeasible for inspection activities, the inspection report shall document the reason why access is unsafe or infeasible. Weather and site conditions shall then be monitored and recorded daily excluding Saturdays, Sundays and referenced holidays until access for inspection activities is determined to be safe and feasible. Inspection of the affected area shall then be performed by the end of the next day after determining that access is safe and feasible, again excluding Saturdays, Sundays and referenced holidays.

Disturbed project areas that are temporarily stabilized due to ice, frozen soil conditions or consistent snow cover extending across 70 percent or more of the area shall be noted on the inspection report. For such areas, the observation of disturbed soils, sediment and erosion control BMPs, drainage areas and locations where stormwater can flow from the construction site is not required during site inspections while one or more of the listed conditions are present. The thawing of these areas shall be noted during the first subsequent inspection when iced, frozen or snow covered conditions are no longer present.

For inactive project sites where soil disturbing construction activities have permanently ceased and final stabilization activities have been completed and documented as such in the SWP2 Plan but vegetative density does not meet the final stabilization criteria specified in Part 9 of this permit, inspections in response to rain events are not required; however, at a minimum, a single routine inspection shall still be conducted at the inactive project site within each established routine inspection monitoring period.

The permittee shall maintain the site inspection reports on-site or at the records storage location identified in the NOI. The permittee shall provide a copy of the site inspection reports to KDHE or EPA upon request.

7.3 Modifications and Amendments to SWP2 Plan -

The permittee shall modify or amend the SWP2 Plan as appropriate during the term of the construction activity until the site is stabilized. The permittee, an authorized representative, and/or the contractor(s) responsible for installation, operation, and maintenance of the BMPs shall keep a current copy of the SWP2 Plan on the project site.

7.3.1 Modification of Control Measures and Management Practices –

Modifications to the SWP2 Plan shall be made to better control the site erosion and sediment discharges based on field conditions or site phasing that was not considered during SWP2 Plan development. The permittee shall indicate the changes on the erosion and sediment control plan sheets, maintain a log showing dates of all SWP2 Plan modifications, a brief description of the SWP2 Plan modifications, and the name and title of the person authorizing the modification. Changes to the SWP2 Plan that are not an amendment (see below) are considered modifications and do not need to be submitted to KDHE. Modification of site erosion and sediment controls based on field conditions or site phasing do not require preparation or approval by a professional; however, modifications that involve the relocation or reconfiguration of any sedimentation basin or corresponding outlet structure required under Part 7.2.7 of this permit shall be prepared under the supervision of a licensed or certified professional as specified in Part 7.1 of this permit.

7.3.2 Amendment of the SWP2 Plan -

The SWP2 Plan shall be amended:

- when a change in the project scope increases the amount of soil disturbed by more than 1.0 acre;
- when stormwater will discharge into a surface water not originally receiving stormwater from the permitted site construction activities; and
- when determined as significant by KDHE upon notification of any discovery of contaminated soil or groundwater, potential historic or archeological sites, or threatened or endangered species during the construction that was not identified and addressed in the SWP2 Plan.

For projects requiring an amendment the permittee will need to submit a letter explaining the changes, a modified erosion and sediment control plan, and a new NOI form indicating the new acreage with the originally issued State and Federal permit numbers. Soil disturbing activities shall not occur on the added or discovered areas until Authorization from KDHE is provided. Amendments need to be submitted at least 60 days prior to implementing the proposed changes at the site. Authorization for the revised project will be indicated in similar fashion as the initially authorized NOI and a copy of the newly authorized NOI will be provided to the permittee. Amendments to SWP2 Plans shall be prepared under the supervision of a Licensed Kansas professional engineer, geologist, architect, or landscape architect or a Certified Professional in Erosion and Sediment Control.

The permittee shall modify or amend the SWP2 Plan, at a minimum, whenever:

- there is a change in design, operation, or maintenance of BMPs, pollution controls, or pollution prevention measures;
- there is a change in the design or scope of the construction project which could significantly affect the quality of the stormwater runoff or the use of designated BMPs or pollution controls;
- the construction site inspections indicate deficiencies in the SWP2 Plan or any BMP;
- KDHE or EPA notifies the permittee of deficiencies in the SWP2 Plan, BMP's, and/or pollution controls;
- the SWP2 Plan is determined to be ineffective in significantly minimizing or controlling erosion and sedimentation (e.g. there is evidence, such as excessive site erosion, excessive sediment leaving the site, or excessive sediment deposits in drainage channels, streams, or lakes);
- KDHE determines violations of Surface Water Quality Standards may occur or have occurred; or
- KDHE determines the activities at the site constitute a significant pollution potential which the current SWP2 Plan does not adequately address.

The permittee shall provide a copy of the most current SWP2 Plan to KDHE or EPA upon request.

7.4 Contractor Notification -

The permittee shall notify each contractor or entity (including utility crews, and city employees or their agents) that will perform work at the site of the existence of the SWP2 Plan and what action or precautions shall be taken while on-site to minimize the potential for erosion and the potential for damaging any BMP or pollution control. However, the permittee is ultimately responsible for ensuring compliance with this permit.

The permittee shall provide contractors who are responsible for installation, operation, or maintenance of any BMP a copy of or access to the SWP2 Plan.

Part 8. TRANSFER OF OWNERSHIP

8.1 Transfer of Entire Permitted Area -

Coverage under and the requirements of this NPDES general permit are transferable but transfer is not automatic and must be accepted by KDHE. The permit

may be transferred only to a party that meets the definition of "Owner", "Owner or operator", or "owner/operator" for the entire authorized project scope. The current permittee and the new permittee shall complete a Notice of Transfer of Owner/Operator (NOTO) form, bearing original signatures, and submit to KDHE at the address given in Part 10.2 of this NPDES general permit. If the original permittee is unavailable or unwilling to sign the NOTO (normally due to bankruptcy) the NOTO shall be filled out as much as possible and a cover letter explaining the situation submitted with the NOTO by the new owner.

Transfers shall be requested at least two weeks in advance of transfer of ownership or operational control to ensure KDHE has accepted the transfer and/or provisions that needed to be addressed by the two parties covering continued responsibility by the original permittee until such time as KDHE formally accepts the permit transfer.

8.2 Partial Permitted Area Transfer of One (1.0) or More Acres -

If ownership or operational control of a contiguous area, one (1.0) or more acres in size, within the overall project or subdivision area is sold or otherwise transferred by the permittee to a new owner, then a new complete request for Authorization for the area being sold or otherwise transferred shall be submitted in accordance with Part 4 of this NPDES general permit. This procedure is required for all projects including residential, commercial and industrial subdivisions. Lots for construction of residential homes of greater than one (1.0) acre can utilize procedures under this section or under Part 8.3. Previous clearances issued for the original permitted project area (e.g., Kansas Historical Society, Kansas Department of Wildlife, Parks and Tourism, United States Army Corps of Engineers) may be referenced.

8.3 Partial Permitted Area Transfer of Less than One (1.0) Acre or a Residential Home Lot -

Both the permittee and the new owner or operator including a contractor, who obtains ownership of a lot or contiguous portion of an overall permitted area that is less than one (1.0) acre in size shall jointly complete an Individual Lot Certification (ILC) form for each lot, lots or portions sold or otherwise transferred, or shall incorporate requirements into the contract for sale that are equivalent to those specified on the ILC form. The ILC or equivalent statements in the contract for sale do not constitute a transfer of the Authorization to discharge. The agreement is between the new owner or operator of the lot or portion and the permittee to implement the SWP2 Plan and the conditions of the general NPDES permit cooperatively, however, the original permittee maintains responsibility for discharges from the project site.

The permittee shall maintain the ILC form or a copy of the

contract for sale covering the same requirements either on-site or at the Records Address location identified in Section I of the NOI. The permittee shall provide ILC forms or copies of contracts for sale to KDHE, EPA, or any other government agency upon request.

Part 9. PROJECT COMPLETION

The permittee shall notify KDHE of the project completion by submitting a Notice of Termination (NOT). The permittee shall sign the NOT and mail it to KDHE at the address given in Part 10.2 of this NPDES general permit.

When the soil disturbing activities are complete and final stabilization of all disturbed areas has been achieved, the permittee can terminate coverage under this NPDES general permit by submitting the NOT. The project is considered to be stabilized when perennial vegetation, pavement, buildings, or structures using man-made materials cover all areas which have been disturbed. Vegetation must have a density of at least 70 percent of the density of undisturbed areas at or near the site.

For projects disturbing agricultural land, disturbed areas that are restored to their preconstruction agricultural use are not subject to the above stabilization criteria. Areas that are not being returned to preconstruction agricultural use, must meet the conditions for final stabilization in this Part.

For subdivision development projects, termination of coverage may be requested after three years, provided the entire subdivision is stabilized and the rate of home construction disturbs less than one (1.0) acre per year (approximately 5 lots) or less than one (1.0) acre of land remains to be developed (approximately 5 lots).

The permittee may also terminate coverage under this NPDES general permit prior to completion of the project construction activities provided that duplicate authorization for coverage under this general permit or KDHE authorized successor permits has been issued and is in effect for all remaining construction activities including all areas disturbed by previous construction activities that have not obtained final stabilization.

Part 10. GENERAL REQUIREMENTS OF THIS PERMIT

10.1 Records -

The permittee shall maintain all records required by this NPDES general permit for a period of three (3) years following the date on the NOT. All records shall be kept on-site or in a readily available location identified in the NOI until final stabilization has been completed. Electronic versions of the required records are acceptable but must show or otherwise document all relevant

signatures and be readily available for copying and contractor access as per Part 7.4 and agency review as per Part 10.4 of this general permit. After final stabilization has been completed, records may be maintained at the permittee's main office.

Records shall be readily available during normal business hours

Records which shall be maintained by the permittee include, but are not limited to:

- the NOI indicating the Authorization by KDHE to discharge stormwater runoff from the construction activities and supporting documentation used to apply for authorization under this NPDES general permit;
- the SWP2 Plan for the construction site named in the Authorization to discharge stormwater runoff, and any amendments to the SWP2 Plan;
- all site inspection records;
- any clearance letters, from KDWP&T, KSHS, COE, or any other agency providing clearance;
- Individual Lot Certification (ILC) forms or portions of the contract for land sale with equivalent wording; and
- a copy of the Notice of Termination submitted to KDHF

Except for data determined to be confidential *under 33 USC Section 1318*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential. Knowingly making any false statement on any such report or tampering with equipment to falsify data may result in the imposition of criminal penalties as provided for in 33 USC Section 1319 and KSA 65-170c.

10.2 Contact Address -

All notifications, forms, reports, or other correspondence which must be submitted to KDHE as required by this NPDES general permit shall be sent to:

Kansas Department of Health and Environment Bureau of Water, Industrial Programs Section 1000 SW Jackson, Suite 420 Topeka, KS 66612 – 1367

Applicants can download copies of all forms, references, or the NPDES general permit from the KDHE Stormwater

Website at:

http://www.kdheks.gov/stormwater/index.html

or can be requested by e-mail to KDHE at:

kdhe.stormwater@ks.gov

10.3 Duty to Comply -

The permittee shall comply with all conditions of this NPDES general permit. Any noncompliance with this NPDES general permit constitutes a violation of the CWA. K.S.A. 65-164 and 65-165, and/or K.A.R. 28-16-28 et seq. Noncompliance may result in enforcement action; revocation/termination of this authorization: amendment of this authorization.

It shall not be a defense for a permittee in an enforcement action to contend that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of the NPDES general permit.

After implementation of the stormwater pollution prevention plan, if stormwater discharges adversely affect water quality, or cause violations of any other provision of this NPDES general permit, the permittee shall modify and implement the stormwater pollution prevention plan to address the non-compliance.

Failure to comply with the requirements of the NPDES general permit may subject the permittee to enforcement revocation/termination including actions authorization to discharge under this NPDES general permit, a requirement to discontinue the permitted activity, fines and/or possible imprisonment.

Projects which have received authorization under this Permit that are placed on Inactive Status will no longer have permit coverage under this Permit, KDHE will place previously permitted facilities on Inactive Status for failure to pay the annual permit fee without further notice if payment is not received within 3 months of the date of the invoice (see Part 6).

10.4 Duty to Provide Information and Site Access -

The permittee shall furnish to KDHE; the EPA; or any local agency having jurisdiction for any aspect of the project, any information which is requested to determine compliance with this NPDES general permit.

When the permittee becomes aware they failed to submit any relevant facts or submitted incorrect information to KDHE, they shall promptly submit such facts or information to KDHE at the address given in Part 10.2.

The permittee shall allow the Director or an authorized representative of KDHE, the EPA, or, local agency having jurisdiction over the project, upon the presentation of proper credentials and other documents as may be required by law, to:

- enter upon the site where a regulated construction project or activity is located or conducted or where records must be kept under the conditions of this NPDES general permit;
- obtain samples of any discharge to waters of the State:
- have access to and copy at reasonable times, any records which must be kept under the conditions of this NPDES general permit; and
- inspect the construction site and any facilities or equipment (including monitorina equipment. stormwater controls, and BMPs).

10.5 Signatory Requirements -

The Notice of Intent (NOI), the Notice of Termination (NOT), and the Notice of Transfer of Owner/Operator (NOTO) shall be signed by the owner, operator, or designee. All forms, reports, or other correspondence which must be submitted to KDHE as required by this NPDES general permit shall be signed by the permittee or a duly authorized representative.

10.6 Chemical and Sewage Spills -In case of a spill emergency call:

U.S. EPA National Response Center:

(24 hours a day) (800) 424-8802

Kansas Division of Emergency Management: (KDEM)

(24 hours a day) (785) 291-3333 Website: www.ksready.gov

KDHE Spill Report Hotline:

(24 hours a day) (785) 296-1679

10.7 Hazardous Substance and Oil Spill Reporting -

The permittee or authorized representative is required to notify the U.S. EPA National Response Center (800-424-8802) in accordance with the requirements of 40 CFR 117 and 40 CFR 302 as soon as the discharge of any hazardous substance or oil in excess of the reportable quantity has been discovered. A reportable quantity of oil is the quantity which causes a "film or sheen upon or discoloration of the surface of the water or adjoining shorelines or causes a sludge or emulsion to be deposited

beneath the surface of the water or upon adjoining shorelines." Reportable quantities for hazardous substances are listed in the cited CFRs.

The permittee is also required to notify the Local Emergency Planning Agency and the <u>Kansas Division of Emergency Management</u> (KDEM) at the phone numbers and/or website listed above in permit paragraph 10.6.

Nothing in this permit shall be construed to preclude the initiation of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under 33 USC Section 1321 or KSA 65-164 et seq.

10.8 Sewage, Wastes, Materials, and Substances Spill Reporting -

Any discharge or escape of sewage, substances, materials, or wastes, as set forth in K.S.A. 65-171d, which are, or threaten to contaminate or alter any of the properties of the waters of the State or pollute soil in a detrimental, harmful, or injurious manner or create a nuisance, shall immediately be reported to the Kansas Department of Health and Environment at (785) 296-1679. The report shall be made by the permittee, or the owner of the spilled materials, or their respective authorized representative.

In the case of discharges under conditions other than those allowed in a valid NPDES permit, the report shall be made by the permittee or an authorized representative. The report shall be made by telephone to KDHE at 785-296-1679 in accordance with K.A.R. 28-48-1 et seq.

Nothing in this NPDES general permit shall be construed to preclude KDHE's institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the CWA (33 U.S.C. Section 1321); the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); K.S.A. 65-161 et seq.; or under state or federal statutes or regulations governing oil or hazardous substances or wastes.

10.9 Requiring a Different NPDES Permit -

The Director may require the permittee to apply for and obtain an individual permit or different general permit if:

- the permittee is not in compliance with the conditions of this NPDES general permit;
- the discharge no longer qualifies for this NPDES general permit due to changed site conditions or regulations; or
- information becomes available which indicates water

quality standards have been, or may be violated.

The permittee will be notified in writing of the need to apply for an individual permit or a different NPDES general permit. When an individual permit or different general permit is issued to the authorized permittee, this NPDES general permit is automatically revoked/terminated upon the effective date of the individual or different general permit, whichever the case may be.

10.10 Electronic Data Monitoring Report -

EPA has promulgated a final rule requiring regulated entities to report discharge monitoring report (DMR) data electronically by December 21, 2016. Also, K.A.R. 28-16-63 requires permittees to report NPDES data in a form required by KDHE. KDHE has developed electronic reporting tools to assist permittees in complying with the EPA electronic reporting rule and K.A.R. 28-16-63. Unless a waiver has been approved by KDHE, permittees are required to submit reports electronically when these tools are made available to them by KDHE. By December 21, 2020, the permittee must submit electronically compliance data, reports, and permit applications by a KDHE approved electronic reporting tool.

Part 11. STANDARD CONDITIONS

In addition to the conditions specified in this NPDES general permit, the permittee shall comply with the following Standard Conditions.

11.1 Proper Operation and Maintenance -

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the requirements of this NPDES general permit, Kansas law, and Federal law. Proper operation and maintenance also includes adequate laboratory controls, if applicable, and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the requirements of this permit. Pollution control systems, erosion control measures or best management practices which require maintenance shall be maintained. repaired or replaced in a timely manner to avoid discharging stormwater runoff laden with pollutants or sediment which adversely impacts water quality.

The permittee shall take all necessary steps to minimize or prevent any adverse impact to human health or the environment resulting from noncompliance with any requirements specified in this permit, including any monitoring as necessary to determine the nature and impact of the stormwater discharge. When necessary to maintain compliance with the permit requirements, the permittee shall halt or reduce those activities under its control.

When necessary to achieve compliance with the terms and conditions of this NPDES general permit, the permittee shall install, operate and maintain backup systems or auxiliary facilities to supplement the erosion control measures and best management practices proposed in the NOI.

11.2 Severability -

The provisions of this NPDES general permit are severable. If any provision of this NPDES general permit or any circumstance is held invalid, the application of such provision to other circumstances and the remainder of the NPDES general permit shall not be affected thereby.

11.3 Permit Modifications and Terminations -

As provided by KAR 28-16-62, after notice and opportunity for a hearing, this permit may be modified, suspended or revoked or terminated in whole or in part during its term for cause as provided, but not limited to those set forth in KAR 28-16-62 and KAR 28-16-28b through g.

The permittee shall furnish to the Director, within a reasonable amount of time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish upon request, copies of all records required to be kept by this permit. The filing of a request by the permittee for a permit modification or revocation and reissuance, or a notification of termination, planned changes or anticipated noncompliance does not stay any permit condition.

11.4 Change in Discharge -

All discharges authorized herein shall be consistent with the requirements and conditions of this NPDES general permit.

The SWP2 Plan shall be amended or modified to reflect significant changes to the project and/or the stormwater discharges in accordance with the applicable requirements of Part 7.3 of this NPDES general permit.

11.5 Discovery During Construction -

In the event contaminated soil, groundwater contamination, or contamination from hazardous substances are discovered at the site during construction activities, the permittee shall report the discovery to KDHE verbally within 24 hours to (785) 296-5549, and within 5 business days in writing at the stated address in

Part 10.2 of this NPDES general permit. Until site evaluations have been completed and instruction has been provided by KDHE, construction activities in the contaminated area shall cease and additional provisions shall be provided to immediately mitigate discharges from the contaminated area.

Any discovery during construction activities of threatened or endangered species on the site or in the downstream receiving waters, or of a historical or archeological site, that were not previously identified or addressed in the SWP2 Plan needs to be reported to the KDWP&T or KSHS and KDHE - Bureau of Water. Until site evaluations have been completed and instruction has been provided by the appropriate agencies, construction activities in the affected area shall cease.

If soil contamination, hazardous substances, threatened or endangered species, or historical or archeological sites are discovered during construction activities, the SWP2 Plan shall be modified or amended to reflect this new information in accordance with the requirements and conditions of Part 7.3 of this NPDES general permit.

11.6 Removed Substances -

Solids, sludge, sediment, filter backwash, or other pollutants removed in the course of treatment or control of stormwater runoff shall be properly managed, utilized, and/or disposed of in accordance with applicable statutes and regulations to prevent pollution of surface water, groundwater, or soil.

11.7 Civil, Criminal, and Administrative Liability -

Kansas law provides for civil and criminal punishment including fines and imprisonment for violations of this NPDES general permit. The permittee shall comply with all requirements of this NPDES general permit. Except as authorized in paragraph 11.10 below, nothing in this permit shall be construed to relieve the permittee from administrative, civil or criminal penalties for noncompliance as provided for in KSA 65-161 et seq., and 33 USC Section 1319.

11.8 Property Rights -

The issuance of this NPDES general permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property, nor any invasion of personal rights, nor any infringement or violation of Federal, State or local laws or regulations. This NPDES general permit in no way reduces or eliminates the permittee's responsibilities to landowners whose property may be traversed by stormwater runoff from the project site either before, during, or after construction of the planned project. It is the permittee's responsibility to obtain any necessary approvals from any affected property owner.

11.9 Duty to Mitigate -

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this NPDES general permit which has a reasonable likelihood of adversely affecting human health or the environment.

11.10 Bypass -

Any diversion or bypass of facilities necessary to maintain compliance with this NPDES general permit is prohibited except where necessary to prevent loss of human life, personal injury, or severe property damage, and where no feasible alternative to the bypass exists.

Any bypass which occurs during construction activities which may affect a threatened or endangered species, or a historical or archeological site, on site or in the receiving water body, shall be reported to KDHE verbally within 24 hours to (785) 296-5549, and within 5 business days in writing at the stated address in Part 10.2 of this NPDES general permit.

If a bypass occurs during construction activities, the SWP2 Plan shall be modified or amended to prevent future occurrences in accordance with the requirements and conditions of this NPDES general permit.

ENDNOTES

1. The NPDES general permit, application forms, guidance material, the rainfall erosivity waiver application, and reference material is available on the <u>KDHE Stormwater Website</u> at <u>www.kdheks.gov/stormwater</u>. The website also provides links to EPA guidance documents and the instructions for the rainfall erosivity calculation, <u>Fact Sheet 3.1 - Storm Water Phase II</u> Final Rule Construction Rainfall Erosivity Waiver

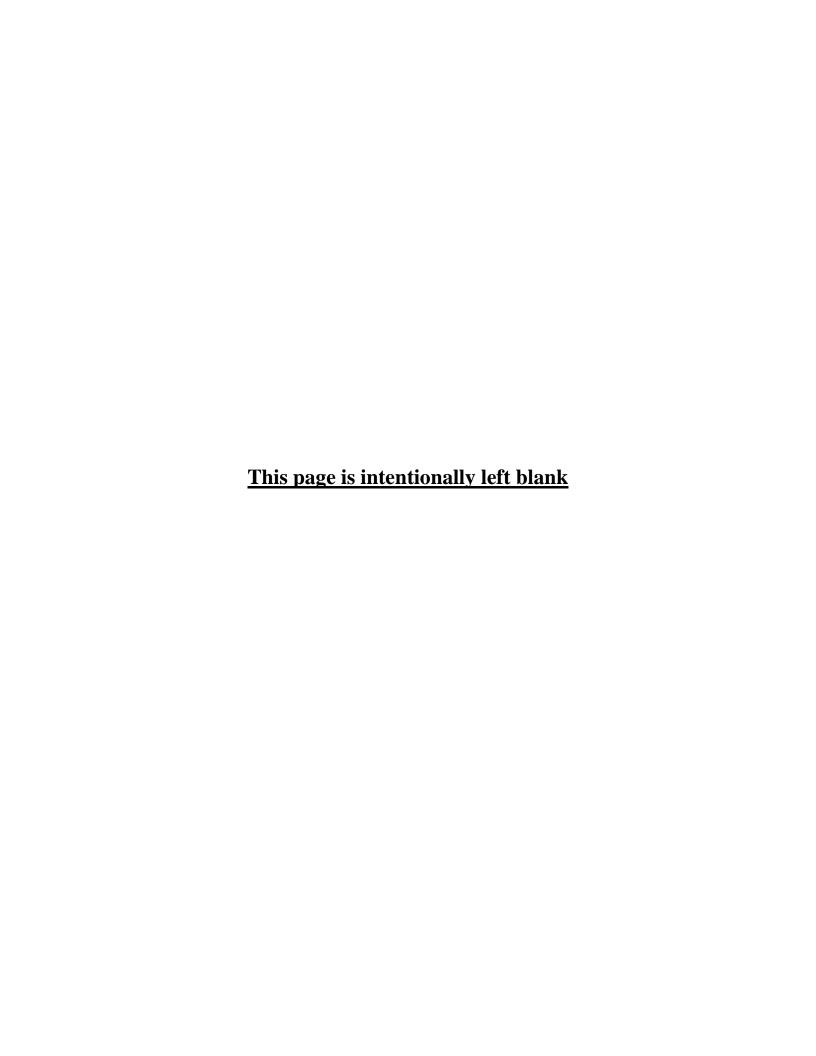
Material available on the <u>KDHE Stormwater Website</u> <u>www.kdheks.gov/stormwater</u> includes the NPDES general Permit, Notice of Intent, Notice of Termination, Notice of Transfer of Owner/Operator, Individual Lot Certification, and the Definitions and Acronyms in Adobe Acrobat Reader format (pdf).

Reference material available on the <u>KDHE Stormwater Website</u> at <u>www.kdheks.gov/stormwater</u> includes the Fact Sheet, Rainfall Erosivity Waiver Application, a list of Exceptional State Waters, Special Aquatic Life Use Waters and Outstanding National Resource Waters, and a link to the current Kansas Surface Water Register and maps.

- 2. The owner or operator must determine whether discharging stormwater runoff from construction activities on the site is subject to any local applicable requirements. To determine the local requirements applicable to each construction project, the owner or operator must contact the local Municipal Separate Storm Sewer System (MS4) operator. A list of MS4 operators who have or may be required to have a local stormwater pollution prevention program is available on the KDHE Stormwater Website at www.kdheks.gov. This list is provided and maintained for information only and will not necessarily include all MS4 operators with a local program.
- 3. If the applicant is uncertain if the project is located on Indian Country land, please contact the Bureau of Indian Affairs Southern Plains Regional Office Natural Resources Department at (405) 247-6673 and the EPA Region VII Tribal Program at (913) 551-7969 or (913) 551-7374. EPA is the permitting authority on Indian Country land. To request authorization to discharge stormwater runoff from construction activities conducted on Indian Country land the applicant must contact EPA.
- 4. To determine if your project is located near one of these areas find the stream segment(s) or lake(s) which receive(s) the stormwater runoff on the Kansas Surface Water Register Maps, then check the designated uses of the stream segment(s) or lake(s) in the Kansas Surface Water Register. Applicants can download a copy of the Surface Water Register from the KDHE Stormwater Website at www.kdheks.gov/stormwater. At the time of this general NPDES permit issuance there were no Critical Water Quality Management Areas established. The stormwater website at: www.kdheks.gov/stormwater includes the most current list should an area be established.
- 5. The referenced guidance documents are available on-line at: http://kdheks.gov/stormwater. Links to the referenced guidance are also available at the KDHE website: http://kdheks.gov/stormwater.
- 6. Certification as a professional in erosion and sediment control is available through CPESC, Inc. CPESC information can be obtained through the internet at www.cpesc.org, or by calling (828) 655-1600. For other additional educational opportunities and information, contact the International Erosion Control Association at www.ieca.org or by calling (800) 455-4322.

7. Routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility that disturbs less than 5 acres is not considered to be construction activity, and therefore is not subject to construction stormwater permitting requirements.

Effective August 1, 2017 Page 21 of 21



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

BUREAU OF WATER



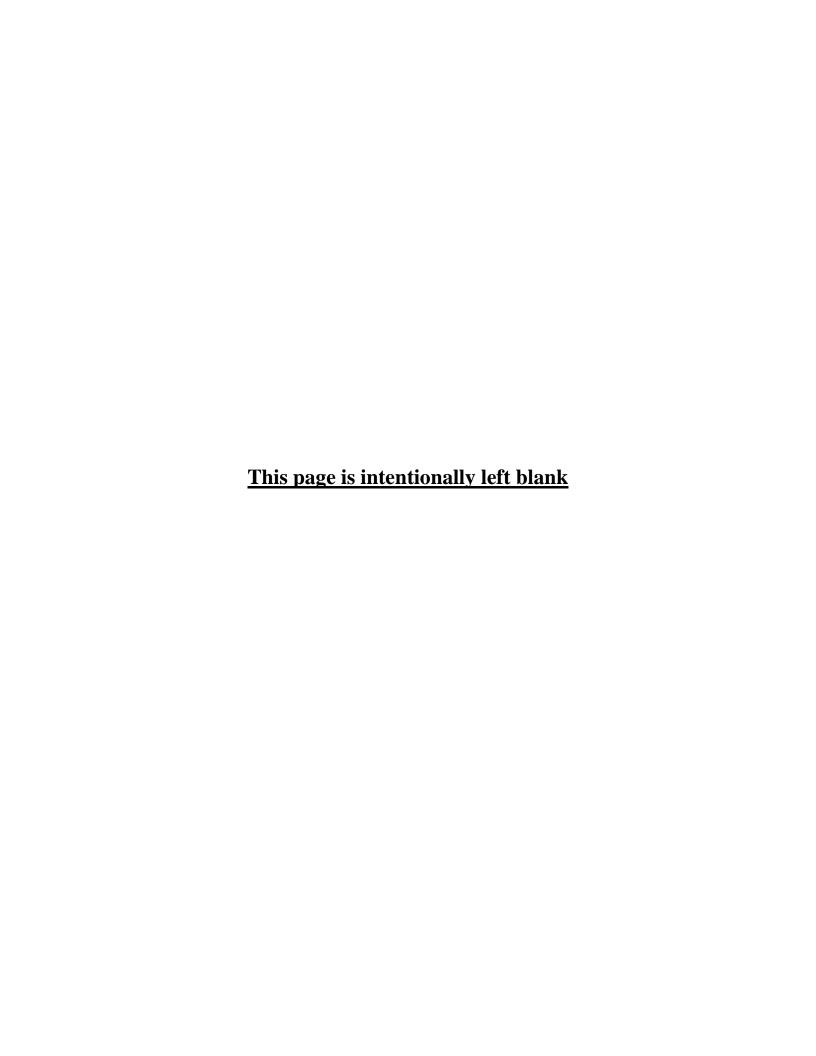
KANSAS WATER POLLUTION CONTROL

AND

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES
GENERAL PERMIT

APPENDIX 1

DEFINITIONS & ACRONYMS



These definitions pertain to the Kansas Water Pollution Control General Permit and Authorization to Discharge STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES under the National Pollutant Discharge Elimination System. Persons subject to the NPDES general permit for Stormwater Runoff From Construction Activities should make themselves familiar with this list of definitions.

"Antidegradation" means the regulatory actions and measures taken to prevent or minimize the lowering of water quality in surface waters of the state, including those streams, lakes, and wetlands in which existing water quality exceeds the level required for maintenance and protection of existing uses.

"<u>Authorization</u>" means written authorization from KDHE to discharge stormwater runoff from construction activities. Upon acceptance and approval of the Construction Stormwater Notice of Intent (NOI) and required supporting documentation, KDHE will indicate the authorization and date on the front page of the NOI form by the Secretary of KDHE's signature on the form, and assign State and Federal Authorization numbers. Upon receipt of this Authorization, the permittee is authorized to discharge stormwater runoff from construction activities from the construction site identified in the NOI and supporting documents.

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Borrow Sites" means areas where materials are excavated for use as fill.

"<u>Buffer</u>" means for the purposes of this permit, an area of natural vegetation surrounding streams, rivers, lakes, wetlands, or other waters of the U.S. within which construction activities are restricted.

"Bypass" means any diversion of contaminated stormwater runoff away from BMPs.

"Combined Sewer System" means sewers that are designed to collect rainwater runoff, domestic sewage, and industrial wastewater in the same pipe.

"Commencing Construction" means starting to remove vegetation or disturb the soil located at the site.

"Construction Activity" means any construction practices or work including, but not limited to, clearing, grubbing, grading, and excavation which disturbs one (1.0) acre or more; or which is part of a larger common plan of development or sale which disturbs a cumulative total area of one (1.0) acre or more during the life of the project.

"Construction and Development Effluent Guidelines" as published in 40 CFR § 450 is the regulation requiring effluent limitations guidelines (ELG's) and new source performance standards (NSPS) for controlling the discharge of pollutants from construction sites.

"Construction Site" means the land or water area where construction activities will occur and where stormwater controls will be installed and maintained. The construction site includes construction support activities, which may be located at a different part of the property where the primary construction activity will take place, or on a different piece of property altogether. The construction site is often a smaller subset of the lot or parcel within which the project is taking place.

"Construction Support Activities" means the various construction-related activities that occur alongside the construction activity, and can include activities associated with concrete or asphalt batch plants, equipment staging yards, materials storage areas, excavated material disposal areas, and borrow areas.

"Contaminated Groundwater" means groundwater where an actual or potential environmental or public health threat may be deemed to exist as a result of physical, chemical, biological, or radiological substances, or a combination of these substances, has been released into subsurface waters of the state and results in a concentration or amount of a substance in excess of the numerical criteria designated for aquatic life protection, agricultural use, or public

health protection as provided in the Kansas Surface Water Quality Standards: Table of Numeric Criteria or have groundwater concentration levels exceeding the most current version of the KDHE "Risk-based Standards for Kansas (RSK)" manual, Tier 2 for Residential Scenarios - Soil to Groundwater Pathways, or if above RSK levels, the concentrations are not significantly different than area natural background concentrations (RSK Tier 1 evaluation). The manual can be downloaded from the following webpage: www.kdheks.gov/remedial/rsk_manual_page.htm.

"Contaminated Soil" are soils that have soil concentration levels exceeding the lowest concentration of those included in the most current version of the KDHE "Risk-based Standards for Kansas (RSK)" manual, Tier 2 for Residential Scenarios or if above the RSK levels, the concentrations are not significantly different than area natural background concentrations (RSK Tier 1 evaluation). The manual can be downloaded from the following webpage: www.kdheks.gov/remedial/rsk_manual_page.htm.

"Control Measure" refers to any stormwater control, BMP, or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

"Critical Water Quality Management Area" means a watershed, or a portion of a watershed, in which application of minimum state or national wastewater and water quality management practices and procedures cannot be reasonable expected to result in attainment of water quality goals, attainment of water quality standards, protection of resources of the state, prevention of excessive sediment deposition in stream beds, lakes or reservoirs, or prevention of destruction of fishery habitat; or an area in which additional treatment and control of pollutants can result in additional cost effective benefits.

"CWA" means the Clean Water Act or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., as amended on February 4, 1987.

"<u>Defined Drainage</u>" means any water course which has a well-defined bed and banks and a drainage area above the point in question exceeding 160 acres or a greater acreage designated by the Chief Engineer, Kansas Department of Agriculture. The stream need not flow continuously and may flow only briefly after a rain in the watershed.

"Department" means the Kansas Department of Health and Environment.

"<u>Dewatering</u>" means the act of draining or pumping accumulated stormwater and/or groundwater from excavations, building foundations, vaults, trenches, etc.

"Director" means the Director of the Division of Environment, of the Kansas Department of Health and Environment.

"<u>Discharge Monitoring Requirement</u>" means a requirement to observe or evaluate a discharge and note the conditions observed.

"Discharge of Stormwater Associated with Construction Activity" as used in this permit, a discharge of pollutants in stormwater from areas where land-disturbing activities (e.g., clearing, grading, or excavation), construction materials or equipment storage or maintenance (e.g., fill piles, borrow area, concrete truck chute washdown, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants), are located.

"<u>Discharge Point</u>" means for the purposes of this permit, the location where collected and concentrated stormwater flows are discharged from the construction site.

"<u>Drainage Courses or Drainage Swales</u>" means an open linear depression, whether constructed or natural, that functions for the collection and drainage of surface water.

"<u>Duly Authorized Representative</u>" means somebody who speaks, acts or votes on behalf of others. For the purposes of this stormwater general permit, the duly authorized representative either 1) has operational control over

the facility; or 2) has the day-to-day operational control of those activities at the facility necessary to ensure compliance.

"Effluent Limitation" means any restriction established by the Director on quantities, rates, and concentrations of chemical, physical, biological and other constituents which are discharged from point sources.

"Effluent Limitations Guideline" (ELG) - defined in 40 CFR § 122.2 as a regulation published by the EPA Administrator under section 304(b) of CWA to adopt or revise effluent limitations.

"Entrance and Exit Points" means any points of entry to and exit from the construction site to be used by vehicles and equipment during construction activities.

"EPA" means the U.S. Environmental Protection Agency.

"Exceptional State Waters" means any of the surface waters or surface water segments that are of remarkable quality or of significant recreational or ecological value, are listed in the surface water register, as defined in K.A.R. 28-16-28b, and are afforded the level of water quality protection under the anti-degradation provisions of K.A.R. 28-16-28c(a) and the mixing zone provisions of K.A.R. 28-16-28c(b).

"<u>Final Stabilization</u>" means all soil disturbing activities at the site have been completed and a uniform perennial vegetative cover with a density of 70% of the cover which is typical for undisturbed areas, unpaved areas, or areas not covered by permanent structures, in the geographic location of the construction site, has been established, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed. Certain exceptions to this exists for final stabilization of individual lots or completion of construction activities within a larger common plan of development.

"<u>Hazardous Substance</u>" means elements and compounds designated as a hazardous substance pursuant to Section 311(b)(2)(A) of the CWA at 40 CFR 116.4.

"<u>ILC</u>" means the Individual Lot Certification which is to be completed by the permittee and the purchaser of an individual lot or parcel of the overall tract subject to the general NPDES permit for Stormwater Runoff from Construction Activity.

"Impaired Water" "Water Quality Limited Segment" means a surface water that has been identified by KDHE pursuant to Section 303(d) of the Clean Water Act as not meeting applicable Kansas Surface Water Quality Standards. Impaired waters include both waters with approved or established TMDLs, and those for which a TMDL has not yet been approved or established. (Note: To view the Section 303(d) list and TMDLs go to http://www.kdheks.gov/tmdl/index.htm)

"Indian Country Land" means (1) All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running throughout the reservation; (2) All dependent Indian communities within the borders of the United States whether within the original or subsequently acquired territory thereof, and whether within or without the limits of the State; and (3) All Indian allotments, the Indian titles to which have not been extinguished, including rights of way running through the same.

"Infeasible" means not technologically possible, or not economically practicable and achievable in light of best industry practices.

"Install" or "Installation" means when used in connection with stormwater controls, to connect or set in position stormwater controls to make them operational.

"KDHE" means the Kansas Department of Health and Environment.

"Material Handling and Staging Area" means a temporary area on the construction site used for receiving, processing, storing materials to prevent the material from being spilled or coming into contact with runoff.

"<u>Material Washout Area</u>" means a temporary containment area used for the washing of applicators and containers of paint, concrete, and other materials.

"Minimize" means to reduce and/or eliminate to the extent achievable using stormwater controls (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

"<u>Municipal Separate Storm Sewer System (MS4)</u>" means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that are owned or operated by a state, city, town, borough, county, parish, district association, or other public body which is designed or used for collecting or conveying stormwater.

"National Pollutant Discharge Elimination System" means the national system for the issuance of permits under 42 U.S.C. Section 1342 and includes any state or interstate program which has been approved by the administrator, in whole or in part, pursuant to 42 U.S.C. Section 1342.

"NOI" means the Notice of Intent form which is to be used to apply for authorization to discharge under this general permit [A copy of the NOI form is provided as part of the general permit.].

"Non-Stormwater Discharges" means discharges that do not originate from storm events. They can include, but are not limited to, discharges of process water, air conditioner condensate, noncontact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

"NOT" means the Notice of Termination form which is to be completed by the permittee once the project is completed and the site is stabilized. [A copy of the NOT form is provided as part of the general permit.]

"NOTO" means the Notice of Transfer of Ownership form which is to be completed by the permittee and the new site owner or operator when sale of the entire permitted tract occurs. [A copy of the NOTO form is provided as part of the general permit.]

"Oil and Gas Exemption" means changes to the Federal Clean Water Act (CWA) which exempt oil and gas exploration, production, processing, or treatment operations, and transmission facilities from National Pollutant Discharge Elimination System (NPDES) stormwater permitting requirements associated with stormwater runoff from construction activities. (see 40 CFR 122.26 (c) (1) (iii) for exclusions to the CWA exemption.)

"Operational" for the purpose of this permit, stormwater controls are made "operational" when they have been installed and implemented, are functioning as designed, and are properly maintained.

"Outfall" see "Discharge Point".

"<u>Outstanding National Resource Water</u>" (ONRW) means any of the surface waters or surface water segments of extraordinary recreational or ecological significance identified in the Kansas Surface Water Register and afforded the highest level of water quality protection under the antidegradation provisions of K.A.R. 28-16-28c(a) and the mixing zone provisions of K.A.R. 28-16-28c(b).

"Owner", "Owner or operator", or "owner/operator" means the party or parties that either individually or taken together who are the responsible party liable under the Clean Water Act and meet the following criteria: they have operational control over the site specifications; and, they have the day-to-day operational control of those activities at the site necessary to ensure compliance. For a typical commercial construction site, KDHE herein defines the owner or general contractor to be the "owner or operator". For a typical residential development (subdivision), KDHE herein defines the owner or an authorized representative to be the "owner or operator". Each owner or

operator who individually does not engage in construction activity of greater than one (1.0) acre must apply when the construction activity is part of a larger common plan of development.

"Permit" means an authorization, license, or equivalent control document issued by the Director to implement the requirements of K.A.R. 28-16-57. Permit includes a `general permit' (K.A.R. 28-16-150). Permit does not include any document which has not yet been subject to final agency action, such as a "draft permit" or "proposed permit."

"Permittee" means the individual, company, corporation, institution, municipality, township, county, federal agency, owner, operator, or legally constituted sewer district which is authorized by a Kansas Water Pollution Control permit to discharge to the waters of the State and which has operational control of the permitted discharge by specifying activities at the site.

"<u>Point Source</u>" means any discernible, confined, and discrete conveyance, including, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or floating craft from which pollutants are or may be discharged. This term may include structures or site conditions that act to collect and convey stormwater runoff from roadways, urban areas, or industrial sites. This term shall not include agriculture stormwater discharges or return flows from irrigated agricultural land.

"Rainfall Erosivity Waiver" means a waiver of the applicable requirements of the general NPDES permit for Stormwater Runoff from Construction Activities. Owners or operators of construction activities between one and five acres which are eligible for coverage under the general NPDES permit for Stormwater Runoff from Construction Activities may receive a waiver from KDHE provided the value of the rainfall erosivity factor ("R" in the Revised Universal Soil Loss Equation) is less than five (5) during the period of construction activity.

"Run-on" means sources of stormwater that drain from land located upslope or upstream from the regulated site in question.

"Sediment Basin Design Criteria" are requirements for sedimentation structures to be designed to provide a detention volume at least 3,600 cubic feet of storage per acre of total area draining into the sediment basin. KDHE may approve alternate storage volumes if a significant portion of undisturbed area drains to the sediment basin or for areas in Western Kansas where the 2 year, 30 minute rain event is less than 1.3 inches. Runoff calculations based on a detention volume from a 2 year, 30 minute rainfall event with a minimum runoff coefficient of 0.77 for disturbed acreage and appropriate runoff coefficients for undisturbed acreage must be provided to document and justify the revised storage volume requirement.

Sediment basins must be designed to provide the required storage volume below the elevation of the overflow weir, spillway or riser top that allows mass volume of discharge. Designs shall include outlet structures that withdraw water from the surface, unless infeasible.

"Severe Property Damage" means substantial physical damage to property or substantial and permanent loss of natural resources which would be reasonably expected to occur in the absence of a bypass.

"Significant Materials" includes, but is not limited to: raw materials, fuels, materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to EPCRA Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

"Significant Pollution Potential" means the discharge or potential discharge of one or more pollutants that does or has the potential to degrade water quality, violate a water quality standard, or impair a designated use of a classified water. KDHE, in making a determination as to whether a discharge has a significant pollution potential will consider the size and location of the discharge, the quantity and nature of the discharge, and other relevant factors. Examples of a significant pollution potential would include, but not be limited to, contaminated soils or groundwater within the construction site, uncovered salt or salt/sand storage piles; spilled or leaking toxic or hazardous waste; spilled or leaking fuel, oils, grease, solvents; etc.

"Soil Exposed" means for the purposes of this permit, soils that have been disturbed due to the commencement of construction activities.

"Special Aquatic Life Use waters" means surface waters which contain combinations of habitat types and indigenous biota not found commonly in the state, or surface waters which contain representative populations of threatened or endangered species.

"Stabilization" means the use of vegetative and/or non-vegetative cover to prevent erosion and sediment loss in areas exposed through the construction process.

"Steep Slope" means any slope occurring on the construction site that is 2.5 horizontal to 1 vertical or greater (approximately 40 percent).

"Storm Sewer" means a system of pipes (separate from sanitary sewers) that carries stormwater runoff from buildings and land surfaces.

"Stormwater" means stormwater runoff induced by atmospheric precipitation, including snow melt runoff, and surface runoff and drainage.

"Stormwater Control" See "Control Measure"

"Stormwater Pollution Prevention Plan (SWP2 Plan)" means a site-specific, written document and construction plans that: (1) identifies potential sources of stormwater pollution at the construction site; (2) describes stormwater control measures to reduce or eliminate pollutants in stormwater discharges from the construction site; and (3) identifies procedures the operator will implement to comply with the terms and conditions of this general permit.

"Stormwater Runoff from Construction Activities" means stormwater runoff from areas where construction activities are located. Construction activities include clearing, grading and excavating that result in land disturbance of equal to or greater than one (1.0) acre of total land area. Construction activity also includes the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1.0) acre. Construction activities do not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility. (See 40 CFR 122.26(b)(14 -15) for further clarification.)

"Stormwater Runoff from Industrial Activities" means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the Kansas Water Pollution Control program.

For the categories of industries identified in this definition, the term includes, but is not limited to, stormwater discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process wastewaters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials; and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater.

For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation or conveyance of any raw material, intermediate product, final product, by-product or waste product. The term excludes areas located on the plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded area is not mixed with stormwater drained from the above described areas.

Industrial facilities (including industrial facilities which are Federally, State or municipally owned or operated and meet the description of the facilities listed in this paragraph (i)-(xi) of this definition) include those facilities designated under 40 CFR 122.26(a)(1)(v).

The following categories of facilities are considered to be engaging in industrial activity for the purpose of this general permit/definition:

<u>Category (i)</u> - Facilities subject to storm water effluent limitations guideline, new source performance standards, or toxic pollutant effluent standards under 40 CFR subchapter N. Limits and/or standards for this category are subject to change and new limits and standards may be adopted. To verify applicability, see 40 CFR subchapter N.

Stormwater Effluent Guidelines

For a discharge to be covered under stormwater effluent guidelines, the facility must have a stormwater discharge subject to stormwater effluent guidelines. At the time of permit issuance, facilities that have stormwater effluent limitations guidelines for at least one of their subcategories include the following:

40 CFR Subchapter N

Part 411 Cement manufacturing

Part 412 Concentrated Animal Feeding Operations (CAFOs)

Part 418 Fertilizer manufacturing

Part 419 Petroleum refining

Part 420 Iron & steel manufacturing

Part 422 Phosphate manufacturing

Part 423 Steam electric power generating

Part 434 Coal mining

Part 436 Mineral mining & processing

Part 440 Ore mining & dressing

Part 442 Transportation equipment cleaning

Part 443 Paving and roofing materials

Part 445 Landfills

A facility that falls into one of these Parts should examine the effluent guideline to determine if it is categorized in one of the subcategories that have stormwater effluent guidelines. If a facility is classified in one of those subcategories, that facility is subject to the standards listed in the CFR for that category, and as such is required to submit an NOI for any stormwater discharge subject to the stormwater effluent guideline.

Toxic Pollutant Effluent Standards

Facilities subject to toxic pollutant effluent standards refers to the standards established pursuant to CWA section 307(a)(2) and codified at 40 CFR Part 129. Part 129 applies only to manufacturers of six pesticide products which are defined as toxic pollutants. Please note that the phrase "facilities subject to toxic pollutant effluent standards" does not refer to those industries subject to effluent limitation guidelines for toxics under 40 CFR sub-chapter N.

Manufacturers of the following pesticides are subject to regulation under these provisions:

(a) Aldrin/Dieldrin, (b) DDT, (c) Endrin, (d) Toxaphen (e) Benzidine, and (f) Polychlorinated Biphenyls (PCBs):

Stormwater Runoff from Construction Activities General Permit

Definitions and Acronyms

- (a) Aldrin/Dieldrin---Aldrin means the compound aldrin as identified by the chemical name, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo-5,8-exo-dimethanonaphthalene; "Dieldrin" means the compound the dieldrin as identified by the chemical name 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-5,8-exo-dimethanonaphthalene.
- (b) DDT---DDT means the compounds DDT, DDD, and DDE as identified by the chemical names:(DDT)-1,1,1-trichloro-2,2-bis(p-chlorophenyl) ethane and some o,p '-isomers; (DDD) or (TDE)-1,1-dichloro-2,2-bis(p-chlorophenyl) ethane and some o,p '-isomers; (DDE)-1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene.
- (c) Endrin---Endrin means the compound endrin as identified by the chemical name 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-5,8-endodimethanonaphthalene.
- (d) Toxaphene---Toxaphene means a material consisting of technical grade chlorinated camphene having the approximate formula of C_{10} H_{10} Cl_8 and normally containing 67--69 percent chlorine by weight.
- (e) Benzidine---Benzidine means the compound benzidine and its salts as identified by the chemical name 4,4 '-diaminobiphenyl.
- (f) Polychlorinated Biphenyls (PCBs) polychlorinated biphenyls (PCBs) means a mixture of compounds composed of the biphenyl molecule which has been chlorinated to varying degrees.

New Source Performance Standards (NSPS)

For a stormwater discharge associated with industrial activity to be covered under NSPS, the facility must have an activity subject to the NSPS. The new source varies based on the publication date of a particular effluent guideline. Most effluent guidelines listed in 40 CFR Subchapter N contain NSPS.

The following categories of 40 CFR Subchapter N do <u>not</u> have new source performance standards. All other categories have at least one subcategory with new source performance standards.

Part 454 Gum and wood chemicals manufacturing Part 459 Photographic Part 460 Hospital

- Category (ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283), 29, 311, 32 (except 323), 33, 3441, 373;
- Category (iii) Facilities classified as SIC codes 10-14 including active or inactive mining operations (except for areas of coal mining operations no longer meeting the definition of a reclamation area under 40 CFR 434.11(1) because the performance bond issued to the facility by the appropriate SMCRA authority has been released, or areas of non-coal mining operations which have been released from applicable State or Federal reclamation requirements after December 17, 1990), and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations (inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/ operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction,

beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim).

A facility with an existing or new discharge composed entirely of stormwater from oil or gas exploration, production, processing, or treatment operations or transmission facility is not required to submit a request for authorization under this general permit unless the facility:

- (A) Has a discharge of stormwater composed entirely of flows which are from conveyances or systems of conveyances (including but not limited to pipes, conduits, ditches, and channels) used for collecting and conveying collection runoff and which are contaminated by contact with, or come into contact with, any overburden, raw material, intermediate products, finished products, byproducts, or waste products on the site of such operations; or
- (B) Has had a discharge of stormwater resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 110.6, 40 CFR 117.21 or 40 CFR 302.6 at anytime since November 16, 1987; or
- (C) Causes or contributes to a violation of a water quality standard.
- <u>Category (iv)</u> Hazardous Waste Hazardous waste treatment, storage, or disposal facilities including those that are operating under interim status or a permit under Subtitle C of RCRA.
- <u>Category (v)</u> Landfills, land application sites, and open dumps that receive or have received any industrial waste (waste that is received from any of the facilities described under categories (i) (xi)) including those that are subject to regulations under Subtitle D of RCRA.
- <u>Category (vi)</u> Recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as SIC 5015 (used motor vehicle parts) and SIC 5093 (scrap and waste materials).
- Category (vii) Steam electric power generating facilities, including coal handling sites.
- Category (viii) Transportation facilities classified by the SIC codes 40, 41, 42 (except 4221-4225), 43, 44, 45, and 5171 listed below which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under categories (i)-(vii) or (ix)-(xi) of this definition are associated with industrial activity, and need permit coverage. Based on a potential for being a significant contributor of pollutants, KDHE has determined Aerial Spray Operations at Airports are subject to coverage for stormwater runoff associated with industrial activity.
- <u>Category (ix)</u> Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with section 405 of the Clean Water Act.
- <u>Category (x)</u> Construction activity is not covered under this definition. The construction "operator" of both large and small construction activities must apply for coverage under an individual permit or the General Stormwater Permit for Construction Activity requirements.

Effective August 1, 2017 Page 9 of 11

<u>Category (xi)</u> - Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323, 34 (except 3441), 35, 36, 37 (except 373), 38, 39, and 4221-25.

"Surface water" means all of the following:

- (1) streams, including rivers, creeks, brooks, sloughs, draws, arroyos, canals, springs, seeps and cavern streams, and any alluvial aquifers associated with these surface waters;
- (2) lakes, including oxbow lakes and other natural lakes and man-made reservoirs, lakes and ponds; and
- (3) wetlands, including water bodies meeting the technical definition for jurisdictional wetlands given in the "corps of engineers wetlands delineation manual," as published in January 1987, which is hereby adopted by reference.

"<u>Surface Waters of the State</u>" means all surface waters occurring within the borders of the state of Kansas or forming a part of the border between Kansas and one of the adjoining states.

"Temporary Stabilization" means a condition where exposed soils or disturbed areas are provided a temporary vegetative and/or non-vegetative protective cover to prevent erosion and sediment loss. Temporary stabilization may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re-disturb this area.

"<u>Tier 1 Water</u>" means, in regard to antidegradation, a level of protection that provides a "floor" which protects water quality and existing designated uses. Water quality must be preserved to protect and maintain those existing uses. Activities that would lower water quality below levels necessary to maintain existing designated uses are prohibited.

"Tier 2 Water" means, in regard to antidegradation, high quality waters where water quality exceeds the criteria associated with the assigned designated uses. Limited water quality degradation is allowed in high quality water where the degradation is necessary to accommodate important social or economic development, but only if designated uses are still maintained and the highest statutory and regulatory requirements for all point sources of pollution and all cost effective and reasonable best management practices for nonpoint sources of pollution are achieved.

"<u>Tier 2½ Water</u>" means in regard to antidegradation, means a water classified as an Exceptional State Water (see definition of "Exceptional State Waters" in Appendix 1).

"<u>Tier 3 Water</u>" means, in regard to antidegradation, any waters designated as an Outstanding National Resource Water (ONRW) (see definition of Outstanding National Resource Water in Appendix 1).

"Total Maximum Daily Load (TMDL)" is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL includes wasteload allocations (WLAs) for point source discharges; load allocations (LAs) for nonpoint sources and/or natural background, and must include a margin of safety and account for seasonal variations. (Note: To view TMDLs go to http://www.kdheks.gov/tmdl/index.htm.)

"<u>Uncontaminated Groundwater</u>" means water removed from excavation or pumped from an aquifer for dewatering purposes. The water is considered uncontaminated if there is no groundwater contamination within 1,000 feet of the discharge. Suspended solids and turbidity are not sources of contamination for the purposes of this definition but the excavation dewatering discharge must be treated as necessary to remove suspended solids and turbidity to prevent any violation of water quality standards.

Stormwater Runoff from Construction Activities General Permit

Definitions and Acronyms

"<u>Urbanized Area</u>" means a land area comprising one or more places; central place(s); and the adjacent densely settled surrounding area; or urban fringe; that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile.

List of Acronyms

BMPS - Best Management Practices

C & D - Construction & Development

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act

CFR - Code of Federal Regulations

CGP - Construction General Permit

CWA - Clean Water Act

CWQMA - Critical Water Quality Management Area

EPA - U.S. Environmental Protection Agency

ESW - Exceptional State Water

ILC - Individual Lot Certification

K.A.R. - Kansas Administrative Regulations

KDHE - Kansas Department of Health and Environment

KDWPT - Kansas Department of Wildlife, Parks and Tourism

K.S.A. - Kansas Statutes Annotated

KSHPO - Kansas State Historic Preservation Office

KSHS - Kansas Historical Society

MS4 - Municipal Separate Storm Sewer System

NOI - Notice of Intent

NOT - Notice of Termination

NOTO - Notice of Transfer of Ownership

NPDES - National Pollutant Discharge Elimination System

NRDC - Natural Resources Defense Council

NTIS - National Technical Information Service

ONRW - Outstanding National Resource Water

RCRA - Resource Conservation and Recovery Act

SALU - Special Aquatic Life Use

SHPO - State Historic Preservation Officer

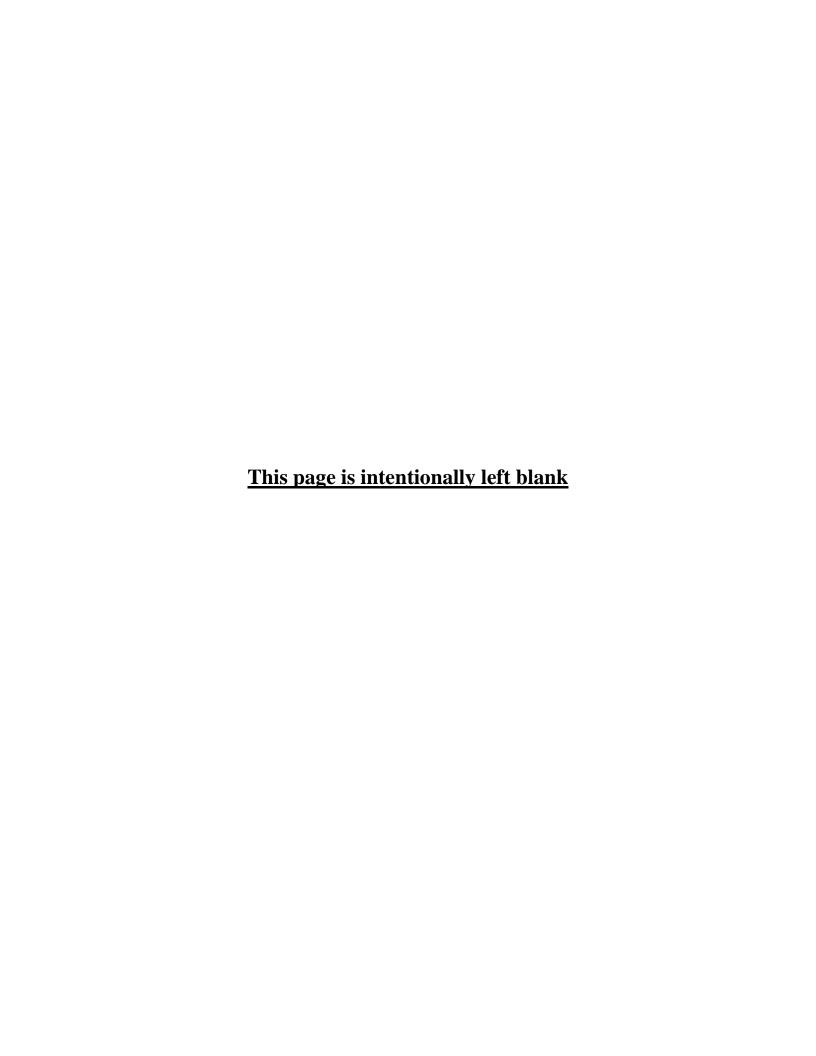
SMCRA - Surface Mining Control and Reclamation Act

SPCC - Spill Prevention Control Countermeasures

SWP2 Plan or SWPPP - Stormwater Pollution Prevention Plan

U.A. - Urbanized Areas

U.S.C. - United States Code



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

BUREAU OF WATER



KANSAS WATER POLLUTION CONTROL

AND

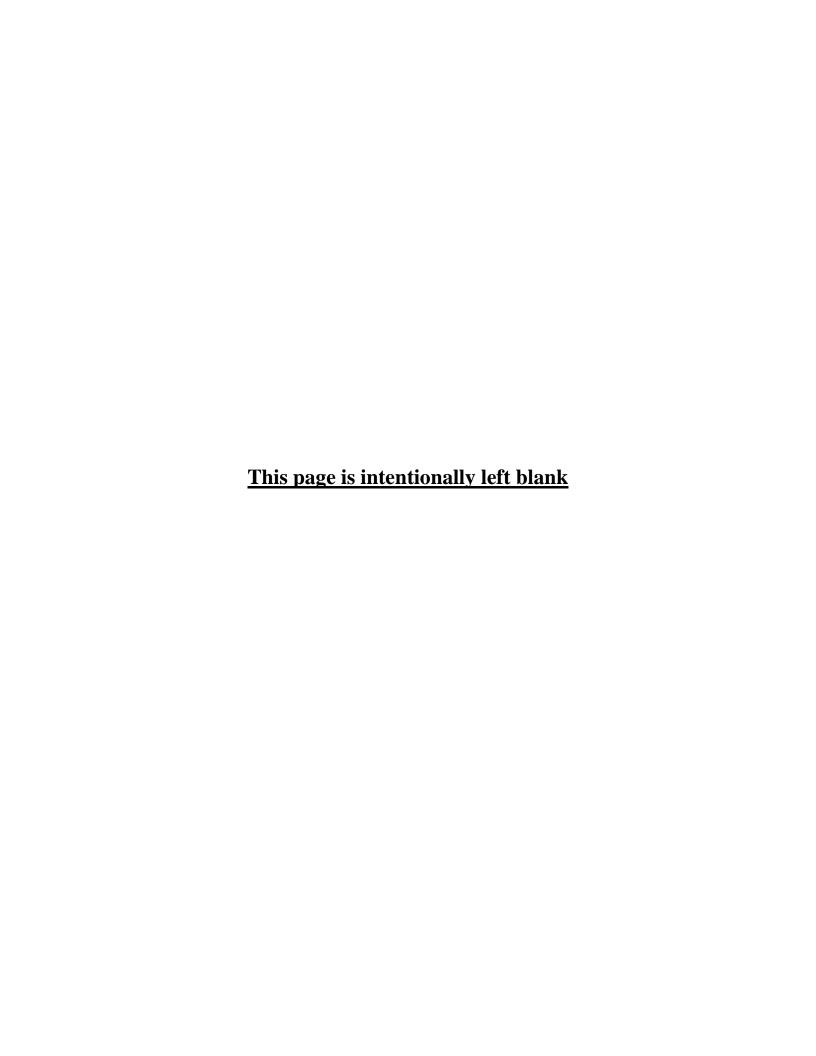
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES

GENERAL PERMIT

APPENDIX 2

FORMS

Notice of Intent Form (NOI) for Stormwater Runoff from Construction Activities Notice of Intent Instructions for Stormwater Runoff from Construction Activities Individual Lot Certification Form (ILC) Notice of Transfer of Owner/Operator Form (NOTO) Notice of Termination Form (NOT)





NOTICE OF INTENT (NOI)

For Authorization to Discharge Stormwater Runoff from Construction Activities
In accordance with the Kansas Water Pollution Control General Permit
Under the National Pollutant Discharge Elimination System (NPDES)

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form requests authorization for coverage under the Kansas Water Pollution Control general permit, or KDHE issued successor permits, issued for stormwater runoff from construction activities in the State of Kansas. Becoming a permittee obligates the discharge to comply with the terms and conditions of the general permit. Completion of this NOI does not provide automatic coverage under the general permit. Coverage is provided and discharge permitted when the Kansas Department of Health and Environment (KDHE) authorizes the discharge of stormwater runoff from the construction activities identified on the NOI and supporting documentation. A signed and dated copy of the first page of the NOI indicating the Authorization will be provided to the owner or operator, or all three pages for Conditional Authorizations. Upon authorization of the construction activity discharge, a Kansas permit number and a Federal permit number will be assigned to the construction project. A complete request for Authorization for coverage under the general permit must be submitted or the request will not be processed (see listing on Page 3 of this NOI). KDHE will notify owners or operators whose Notice of Intent (NOI) and supporting documentation for Authorization of stormwater runoff associated with construction activities are incomplete, deficient, or denied.

Please Print or Type.

I. OWNER OR OPERATOR ADDRESS, BILLING, CONTACT & RECORDS LOCATION INFORMATION				FORMATION				
A.	Owner or Operator's Name: Company Name: Owner or Operator's Phone: Mailing Address:		C.	Contact Name	e:			
			Contac	Company Na	me:			
				Contact Phone:				
	City:	State: Zip:	_	City:	State: Zip:			
	E-mail Address (optional):			E-mail Address (optional):				
В.	Billing Contact Name:		D.	Address when	Address where records will be kept (if not on-site):			
	Billing Contact Phone:			Records Address:				
	Billing Address (if different):			City:	State: Zip:			
	City:	State: Zip:						
	E-mail Address (optional):							
II. SI	A. Project Name: Site Address:		☐ Modification of Existing Permit Authorization					
A.			B. LEGAL SITE DESCRIPTION:					
			QTR ofQTR ofQTR Section:					
	City:	State:Zip:		Township:	South; Range: DE DW			
	(Nearest City to Project) County:							
	For Official Use Only:			Deg	g. Min. Sec. Deg. Min. Sec.			
Receiv	reu	Amount Paid:						
		Date:			Reviewer			
Initials:		Initials:			Authorized: $\square Y$; $\square N$			
		Check No.:			Is Authorization Conditional? ☐ Y; ☐ N			
Authorized by:				(if yes, see page 3 of NOI for conditions)				
Secretary, Kansas Department of Health and Environment				Dete				
Secret	ary, Kansas Department of Health and Enviro	IIIIeiit		Date				

Send completed 3 page NOI form with original signature and all appropriate submittals (see page 3 of NOI) to:

Kansas Department of Health and Environment Bureau of Water, Industrial Programs Section 1000 SW Jackson, Suite 420 Topeka, KS 66612-1367 Note: A copy of the permit can be obtained at: www.kdheks.gov/stormwater or by submitting a written request to KDHE.

Federal Permit No.:

KDHE Contact Information:

Phone: (785) 296-5545

E-mail: kdhe.stormwater@ks.gov

KS Permit No.: _

Proje	ct Nar	ne: Notice of In	tent (NOI)				
C.	Exis	EXISTING CONDITIONS/USES					
	1)	Is any part of the project located on Indian Country land? If yes: Contact EPA regarding discharging stormwater runoff from industrial activities on Indian Country land.	□ Y; □ N				
	2)	If stormwater runoff drains to or through a Municipal Separate Storm Sewer System (MS4): MS4 Name:					
	3)	Name of the first receiving water, stream, or lake:, River Basin:					
	4)	Are contaminated soils present on the site or is there groundwater contamination located within the site boundary? If yes: On separate paper describe in detail the locations and concentrations of the contaminants.	□ Y; □ N				
	5)	Are there any contaminated soils that will be disturbed or any contaminated groundwater that will be pumped by the proposed construction activity? If yes: On separate paper describe the special procedures and erosion and sediment control measures to be implemented to eliminate or minimize the potential to discharge the soil and/or groundwater contaminants.	□ Y; □ N				
	6)	Are there any surface water intakes for public drinking water supplies located within ½ mile of the site discharge points?	□ Y; □ N				
	7)	Are there any known historical or archeological sites present within the site boundary or any historic structures located within 1000 feet of the project site?	□ Y; □ N				
		Note: Include documentation of project-specific coordination with the Kansas Historical Society in making this determination.					
	8)	Is any threatened or endangered species habitat located within the site boundary or in the receiving water body? Note: Include documentation of project-specific coordination with the Kansas Department of Wildlife, Parks & Tourism in making this determination.	□ Y; □ N				
	9)	Will the project impact the line or grade of a stream or does it include dredge or fill of a potential jurisdictional water body or wetlands? If yes: Include documentation of project-specific coordination with the US Army Corps of Engineers and/or the Kansas	□ Y; □ N				
	10)	Department of Agriculture, Division of Water Resources in making this determination. 10) Are any Critical Water Quality Management Areas, Special Aquatic Life Use Waters, or Outstanding National Resource Waters located within ½ mile of the facility boundary?					
		If yes: List the names of all such areas and waters:					
D	Dno	PROJECT DESCRIPTION					
D.	1)	Project Description:					
	2)	Does this NOI include all proposed soil disturbing activities associated with the entire common plan of development? If no: Explain what development areas of the site are not included in this NOI and provide contact information, if available, for the party or parties that own or have operational control of these areas:					
	3)	Anticipated project Start Date:, and Completion Date: Estimated total area to be disturbed: Acres Total area of the site: Acres					
	5)	Do you plan to disturb ten or more acres that are within a common drainage area?	□ Y; □ N				
		If yes: Will a sedimentation basin be installed in that drainage area? (Attach design calculations for each sedimentation basin.) If a sediment basin is not feasible, on a separate sheet describe similarly effective erosion and sediment control measures to be implemented in lieu of a sedimentation basin.	□ Y; □ N				
E.	Map	os estados esta					
	Inclu	Include an area map showing the outline of the construction site and the topographic features of the area at least one mile beyond the project site.					
F.	Ero	SION CONTROL PLAN AND BEST MANAGEMENT PRACTICES					
	1)	Provide a summary of the sequence of major soil disturbing activities including installation of the corresponding stormwater manage	ement and				

2)

pollution control features.

each phase of construction and the locations where stormwater runoff leaves the construction site.

Provide one or more site plans covering the anticipated soil disturbing activities showing the limits of disturbance, the existing and proposed

elevation contours, the types and locations of erosion/sediment control measures and stormwater management/pollution control features during

Proje	ct Na	Name:		Notice of Intent (NOI)				
	3)	Provide a description of the best management practic stormwater runoff throughout construction and the d capacity below the elevation of the mass volume flo	design calculations for each sediment basis					
	4)		Provide the name and License or Certification Number of the engineer, geologist, architect, landscape architect, or Certified Professional in Erosion and Sediment Control (CPESC) under which the construction stormwater pollution prevention plan has been developed.					
		Name	License or Certification Number	Profession or Field (Engineer, Architect, etc.)				
III. A	ANN	NUAL FEE						
	,	Enclose a check for the first year of the annual per "KDHE". Per K.A.R. 28-16-56, as amended, the cur fee will be sent to the contact person requesting a permit	rrent annual permit fee for this general	I permit is \$60. An invoice for the annual permit				
	•	Failure to pay the annual fee will result in termination of	of the construction stormwater discharge	Authorization.				
IV.		OWNER OR OPERATOR CERTIFICATIONS						
	j	I, the undersigned, certify that a Stormwater Pollution Prevention Plan (SWP2 Plan) will be or has been developed for the construction site described in this NOI and supporting documentation. I further certify that the plan will be implemented at the time construction begins, and, as required by the NPDES general permit for Stormwater Runoff from Construction Activity, will revise the SWP2 plan if necessary.						
	1	I understand that continued coverage under the NPDES general permit for Stormwater Runoff from Construction Activities is contingent upon maintaining eligibility as provided for in the requirements and conditions of the general permit, and paying the annual fee.						
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inq who manage the system, or those persons directly responsible for gathering the information, the information sub knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false possibility of fine and imprisonment.				ted. Based on my inquiry of the person or persons the information submitted is, to the best of my				
		Signature (owner or operator)	Date					
	•	Signature (owner or operator)	Date					
	=	Name and Official Title (Please print or type. Form with original signature must be sent to KDHE.)						
Cond	litior	ons of Authorization - For Official Use Only:						
		dicated, Conditions of Authorization are as follows:						
	-							
	-							
	-							

A complete request for Authorization for coverage under the general permit must be submitted or the request will not be processed. A complete request for Authorization includes:

- An NOI form (construction stormwater) with an original authorized signature;
- The annual permit fee for the first year; (\$60.)
- An area map showing the outline of the construction site and the general topographic features of the area at least one mile beyond the project site boundary;
- Sequence of major soil disturbing activities including installation of stormwater management and pollution control features;
- A detailed site plan/plans showing the limits of disturbance, existing and proposed contours, erosion and sediment control features, locations where stormwater runoff leaves the construction site;
- A narrative summary of the additional erosion and sediment control and other best management practices that will be utilized to prevent or reduce contamination of stormwater runoff from the construction activities;
- Total drainage area, storage capacity and design calculations for each sedimentation basin; and
- Copies of letters or e-mails documenting coordination with appropriate local, state or federal agencies.

Notice of Intent (NOI) Instructions

For Authorization to Discharge Stormwater Runoff from Construction Activities In accordance with the Kansas Water Pollution Control General Permit Under the National Pollutant Discharge Elimination System

Who Must File an NOI

Owners or operators of construction activities which may disturb one or more acres or are part of a larger common plan of development or sale which may disturb a cumulative total of one or more acres must obtain authorization to discharge stormwater runoff from construction activities.

Owners or operators of construction activities which disturb less than one acre (<1.0 acre), and which are not part of larger common plan of development or sale, must have authorization to discharge stormwater runoff from construction activities under this general NPDES permit when KDHE believes the water quality impact warrants consideration or KDHE determines the construction activities constitute a significant pollution potential.

Construction activities associated with oil & gas exploration, production or transmission, the construction activities may be exempt under the Oil & Gas Exemption (see permit). However, if Authorization under the general permit is requested for these activities, a permit will be issued and enforced.

The owner or operator of a site that may have a discharge of stormwater runoff from construction activities must submit an **original signed NOI** and all required supporting documentation to obtain coverage under a Kansas Water Pollution Control general permit.

This general permit addresses water quality, not quantity or stormwater routing.

Where To Send an NOI Form

Send the NOI form and all required supporting documentation to the following address:

Kansas Department of Health and Environment Bureau of Water, Industrial Programs Section 1000 SW Jackson, Suite 420 Topeka, KS 66612 - 1367

The general NPDES permit, the NOI, copies of other relevant forms, reference material and guidance is available from the KDHE Stormwater Website: www.kdheks.gov/stormwater

A hard copy of the NOI form, the general NPDES permit, the general permit information packet, or other reference material or guidance may also be obtained by sending a written request to KDHE at the above address.

For additional information, contact KDHE at (785) 296-5545 or by e-mail at: kdhe.stormwater@ks.gov

When to Send an NOI Form

Submit an NOI no later than 60 days prior to the start of construction activities, i.e., soil disturbing activities.

Owners or operators are encouraged to submit an NOI as soon as possible to avoid delaying construction. Discharge under the general permit for Stormwater Runoff from Construction Activities is not Authorized until KDHE indicates the date of Authorization on the

NOI form, assigns the Authorization permit numbers and issues the Authorization with the Secretary of KDHE's signature. KDHE anticipates authorizing most construction stormwater discharges within 60 days following receipt. However, delays may occur from incomplete submittals, inadequate erosion and sediment control plans, or KDHE office workload.

If coverage under the NPDES general permit is denied, an application for an individual Kansas Water Pollution Control permit will be required to obtain discharge Authorization. Individual permits require a minimum of 90 days for processing upon receipt of the individual Kansas Water Pollution Control permit application.

Section I:

A. OWNER OR OPERATOR INFORMATION

Identify the owner(s) or operator(s) that either individually or taken together have operational control over the site construction activities; and which have the day-to-day operational control of those activities at the site necessary to ensure compliance. Do not use a colloquial name.

For a typical commercial construction site, the owner or general contractor is the owner or operator. (See the definition.) For a typical residential development (subdivision), the owner or an authorized representative is the owner or operator.

Give the legal name of the company, firm, public organization, or any other entity that owns the site described in the NOI, or if the activity will be on a right of way, leased property, or easement, give the name responsible for the construction activities.

B. BILLING INFORMATION

Provide the billing contact name and telephone number and provide the billing address if different than the owner or operator mailing address.

C. CONTACT INFORMATION

Enter the name and telephone number of the person to contact regarding the indicated construction activities. The owner or operator and contact person need not be the same.

D. RECORDS LOCATION

Records regarding the permit must be kept at the project site or at a readily available location. If the records will not be located on the project site, provide the address where the records will be located.

Section II SITE INFORMATION:

Indicate if the NOI is a request for Authorization of a new construction project or a request for modification of an existing Authorization.

A. LOCATION

Enter the project's official or legal name and physical location. Include the street address if known, indicate the city(nearest city to the project site), state, ZIP code and the county(s) where construction will occur.

B. LEGAL SITE DESCRIPTION

Indicate the section, township, and range (to the nearest quarter/quarter section; 40 acres) of the center of the site. Provide the Latitude and Longitude of the approximate center of the site of soil disturbance. A conversion program link is provided on the stormwater webpage at www.kdheks.gov/stormwater.

C. EXISTING CONDITIONS/USES

1) Indicate whether the site is located on Indian Country land. If the entire construction disturbance is located on Indian Country land, the owner or operator cannot be covered by KDHE under this NPDES general permit.

EPA is the permitting authority on Indian Country land. To request authorization to discharge stormwater runoff from construction activities on Indian Country land, the applicant must contact EPA.

For information on permitting and location of Indian Country land, contact the Bureau of Indian Affairs at (405) 247-6673 or the EPA Region VII Tribal Program at (913) 551-7969 or (913) 551-7374.

- 2) If the stormwater runoff from construction activities flows into a municipal separate storm sewer system (MS4), enter the name of the operator of the MS4 (e.g., municipality name, county name, or the name of the responsible public body).
- 3) Indicate the river basin in which the project is located and provide the name of the first receiving water, stream, or lake. This may be obtained from the Kansas Surface Water Register, a United States Geological Survey (U.S.G.S.) topographic map or KDOT general highway map for the county where the project or discharge point is located.

The Kansas Surface Water Register, can be downloaded from the KDHE Stormwater Website: www.kdheks.gov/stormwater

- 4) Indicate if there are any contaminated soils present on the site or if there is groundwater contamination located within 1000 feet of the site. If so, on separate paper describe in detail the locations and concentrations of the contaminants.
- 5) Indicate if any contaminated soils will be disturbed or any contaminated groundwater will be pumped by the proposed construction activity. If so, on separate paper describe the special procedures and erosion and sediment control measures that will be implemented to eliminate or minimize the potential to discharge the soil and/or groundwater contaminants.

Items 6 through 10 (Potential Related Impacts of Project Activities):

Indicate if there are any surface water intakes for public drinking water supplies within ½ mile of any site discharge point, and if there are known historic or archeological sites present within the site boundary or any historic structures located within 1000 feet of the project site. The Kansas Historical Society maintains a list of recorded sites or may recommend the project be surveyed for such sites by a professional archeologist. Include documentation of coordination with KSHS with the NOI.

The KSHS may be contacted at:

Kansas Historical Society (KSHS) 6425 SW 6th Avenue Topeka, KS 66615 - 1099 (785) 272-8681, extension 240 e-mail: cultural_resources@kshs.org

website info: www.kshs.org/p/section-106-consultation/15543

Indicate whether any threatened or endangered species are known or are likely to be present within the site boundary or within the receiving water body. Through Kansas Administrative Regulations (K.A.R.) 115-15-1 et seq. the Kansas Department of Wildlife, Parks and Tourism (KDWPT), maintains a listing of threatened or endangered species and their critical habitats.

If threatened or endangered species are likely to be present at the site or within the receiving water body, then list the species and describe the location in relation to the site location. Contact the KDWPT's Environmental Services Section for assistance and include documentation of coordination with KDWPT with the NOI.

KDWPT may be contacted at:

Kansas Department of Wildlife, Parks and Tourism (KDWPT) Environmental Services Section 512 SE 25th Avenue Pratt, KS 67124-8174 (620) 672-5911 e-mail: ess@ksoutdoors.com

website info:

www.kdwpt.state.ks.us/news/Services/Environmental-reviews

Indicate if there are any Critical Water Quality Management Areas (CWQMA) established in accordance with K.A.R. 28-16-70. (At the time of this general NPDES permit issuance there were no CWQMA established. The stormwater website at: www.kdheks.gov/stormwater includes the most current list should an area be established.); Exceptional State Waters (ESW); Special Aquatic Life Use Waters (SALU), or Outstanding National Resource Waters (ONRW), as listed in the Kansas Surface Water Register which are within ½ mile of the proposed construction project. A listing of these water bodies is maintained by KDHE in the Kansas Surface Water Register and is available on the stormwater website at www.kdheks.gov/stormwater.

Indicate if the project will impact the line or grade of a stream or if it will include dredge or fill of a potential jurisdictional water body or wetlands. If yes, include documentation of project site coordination with the U.S. Army Corps of Engineers (USACE) and The Kansas Dept. of Agriculture, Division of Water Resources (DWR).

The **USACE** may be contacted at:

Kansas (all except KC Metro): Kansas City Metro Area: *

U.S. Army Corps of Engineers Kansas State Regulatory Office 2710 NE Shady Creek Access Rd. El Dorado, KS 67042 (316) 322-8247 (316) 322-8259 (FAX)

U.S. Army Corps of Engineers Kansas City District 635 Federal Bldg. Rm 402 Kansas City, MO 64106 (816) 389-3990 (816) 389-2032 (FAX)

The **DWR** water structures section may be contacted at:

Division of Water Resources

Kansas Department of Agriculture Division of Water Resources - Topeka Field Office 6531 SE Forbes Ave., Suite B (mailing address) Topeka, KS 66619 785-296-5733

785-296-8298 (FAX)

E-mail: KDA.TOPEKAFO@ks.gov

^{*} Brown, Doniphan, Atchison, Jefferson, Leavenworth, Wyandotte, Douglas, Johnson, and Miami counties

D. PROJECT DESCRIPTION

Briefly describe the nature of the construction activity.

Indicate whether the entire soil disturbance within the common plan of development is included in this Notice of Intent (NOI) for coverage under the General Permit for Stormwater Runoff from Construction Activity and are included in the SWP2 Plan developed for the project site.

If not, describe the soil disturbing activities within the common plan of development that are not covered by the NOI form. Provide contact information, if available, for owners or operators of the other areas that are not covered by this NOI. Attach additional pages if needed.

Enter the project start date and the estimated completion date for the entire development plan. For phased construction projects with planned intervals of non-activity, do not show the end of a phase as a completion date. If the owner or operator submits a Notice of Termination (NOT) when a construction phase ends, the owner or operator of the construction site must submit a new NOI when construction resumes.

Estimate the area to be disturbed. Include access roads to be constructed, and adjacent or on-site material borrow areas and excess material storage areas, lot grading, and building construction areas.

Total area of the site includes area where soil will be disturbed and areas left undisturbed.

Where a common drainage area of ten or more acres is disturbed a sedimentation basin is required, if feasible. Attach design calculations including total drainage area and storage capacity at the spillway/weir/riser top elevation for each proposed sediment basin.

If a sediment basin is not feasible, indicate why a sediment basin is not feasible and attach a description of a proposed alternative. Proposed alternatives must control erosion and sediment movement as effectively as a sedimentation basin.

E. Maps

Provide a general topographic map or maps of the area extending at least to one mile beyond the property boundaries of the site which clearly shows:

- The construction site, access roads, and the area(s) where soil will be disturbed;
- Existing area contour elevations;
- The location of each existing and proposed discharge point;
- Rivers, waterways, and drainage ditches, and the flow direction;
- Surface water intakes for public water supplies; and
- The map scale and a meridian arrow pointing north.

A 7½-minute series map as published by the U.S.G.S. (or a photocopy of the pertinent portions) or an equivalent scaled topographic map may be submitted. Maps for the State of Kansas may be obtained from the U.S.G.S. Office or Kansas Geological Survey Office listed below.

USGS National Center 12201 Sunrise Valley Drive Reston, VA 20192, USA Phone: 703-648-5953

www.usgs.gov/pubprod/maps.html

Kansas Geological Survey 1930 Constant Ave. Lawrence, KS 66047-3726 Phone: 785-864-3965

KGS maps: www.kgs.ku.edu/Datasale/Maps/index.html

F. Erosion Control Plan And Best Management Practices

Describe the sequence of major soil disturbing activities including the installation of the associated stormwater management and pollution control features.

Provide <u>detailed</u> site plan(s) showing the limits of disturbance, the existing and proposed elevation contours, the types and locations of erosion/sediment control measures and stormwater management/pollution control features during each phase of construction and the locations where stormwater runoff leaves the construction site.

Briefly describe the controls and measures that will be implemented to control pollutants in stormwater runoff. Include a description of the BMPs (e.g., good housekeeping, limiting soil disturbance, inspection practices, temporary mulching, spill prevention, etc.) and sediment and erosion control measures (silt fences, wattles, sediment basins, etc.).

Describe the controls and measures that will be constructed as part of the project and left in place in order to control pollutants from the intended site use after construction is finished. Describe the local requirement, if any, for the permanent stormwater management feature.

Provide the name and license or certification number of the engineer, geologist, architect, landscape architect, or certified erosion and sediment control specialist under which the construction stormwater pollution prevention plan has been developed.

Section III Annual Fee:

Enclose a check for the first year of the annual permit fee specified in K.A.R. 28-16-56 et seq. as amended. Make the check payable to "KDHE". Per K.A.R. 28-16-56, as amended, the current annual permit fee for this general permit is \$60. An annual bill will be sent to the contact person requesting a permit fee until such time as the permit holder submits a Notice of Termination (NOT).

Failure to pay the annual fee will result in termination of the construction stormwater discharge Authorization.

Section IV Owner or Operator Certifications

The owner or operator should read and ensure they understand the statements of this section before signing the NOI form. The NOI form must be signed by the project owner or operator. The NOI with an original signature shall be submitted to KDHE.

The Notice of Intent (NOI), the Notice of Termination (NOT), and the Notice of Transfer of Ownership (NOTO) must be signed by the permittee. All forms, reports, or other correspondence which must be submitted to KDHE as required by this general permit shall be signed and certified by the permittee or an authorized representative.

The Notice of Intent, all SWP2 plans, inspection reports and other information either submitted to KDHE, submitted to the operator of a municipal separate storm sewer system (MS4), or required to be maintained by the permittee under this general permit, shall be signed and certified by the permittee or an authorized representative.

INDIVIDUAL LOT CERTIFICATION



For authorization to Discharge Stormwater Runoff from Construction Activities In Accordance with Kansas Water Pollution Control General Permit No. S-MCST-1703-1 Under the National Pollutant Discharge Elimination System

The permittee shall maintain this form on-site, or in a readily available location. The permittee shall provide Individual Lot Certification forms or a copy of the contract for land sale having the equivalent wording to KDHE or EPA upon request.

TO BE COMPLETED BY THE NEW LOT OWNER						
I certify that I have been informed of my responsibility to provide, or require contractors to provide, appropriate best management practices to minimize sediment discharges and reduce the potential for contamination of stormwater discharges during construction activities on each of the lots or parcels listed below. I have reviewed the terms and conditions of the Kansas Stormwater Runoff from Construction Activities General Permit S-MCST-1703-1 which authorizes the permit holder to discharge stormwater runoff from construction activities, and the subdivision specific Stormwater Pollution Prevention (SWP2) Plan prepared by the permit holder. In the event KDHE notifies the undersigned of water quality violations or permit violations due to conditions at any lot listed below and I am unable or unwilling to take action within 30 days to further reduce erosion or control sediment, then I agree to allow the permit holder to have reasonable access to the site to implement erosion and sediment control measures. I understand this certification is an agreement between the parties named herein to cooperatively implement the SWP2 plan and the conditions of the NPDES general permit.						
Subdivision / Project:						
Legal Description of the Transferred Parcel(s) and/	or Lot No.(s):					
New Owner's Signature:			Date:			
Name (typed or printed):						
If the New Owner is a Corporation and not an I	ndividual					
Company Name:			Phone:			
Company Address:						
TO BE COMPLETED BY PERMIT HOLDER						
As the permittee for the overall tract wherein the above listed parcel(s) and/or lot(s) are located, I certify that I have informed the lot purchaser of their responsibility to minimize sediment discharges and reduce the potential for contamination of stormwater discharges during construction activities. I have also provided a copy or allowed the new lot owner to review the Kansas Stormwater Runoff from Construction Activities General Permit S-MCST-1703-1 and the subdivision specific Stormwater Pollution Prevention (SWP2) Plan. I understand this certification does not constitute a transfer of the permit. I also understand this certification is an agreement between the parties named herein to cooperatively implement the SWP2 plan and the conditions of the NPDES general permit.						
Name of Project:						
Address:	_ City:	County:	State: KS Zip Code:			
Kansas Permit No.	nnsas Permit No Federal Permit No					
Company Name:			Phone:			
Company Address:						
Permittee Signature:			Date:			
Permittee Name:						



NOTICE OF TRANSFER OF OWNER/OPERATOR

For Authorization to Discharge Stormwater Runoff from Construction Activity
In accordance with Kansas Water Pollution Control General Permit No. S-MCST-1703-1
Under the National Pollutant Discharge Elimination System

Use this form only when stormwater discharge and control responsibility for the entire permitted area will be transferred to a new owner/operator. The new owner/operator is required to meet the definition of "Owner", "Owner or operator", or "owner/operator" for the entire authorized project scope. Partial permitted area transfers and individual lots need to utilize procedures in paragraphs 8.2 and 8.3 of the NPDES general permit. Submission of the Notice of Transfer of Owner/Operator (NOTO) constitutes notice that the new permittee, or an authorized representative, requests authorization for coverage under the Kansas Water Pollution Control general permit, or KDHE issued successor permits, issued for discharge of Stormwater Runoff from Construction Activities in the State of Kansas. Completion of this NOTO does not provide automatic coverage under the general permit to the new permittee. Coverage is provided and discharge permitted when the Kansas Department of Health and Environment (KDHE) accepts the transfer. TO CONTINUE COVERAGE, THE NEW PERMITTEE MUST ASSUME THE RESPONSIBILITY TO PAY THE ANNUAL PERMIT FEE AND CONTINUE TO IMPLEMENT THE STORMWATER POLLUTION PREVENTION PLAN DEVELOPED FOR THE PERMITTED AREA.

Submission of this NOTO to KDHE does not relinquish the current permittee's authorization to discharge stormwater runoff from construction activity at the site described herein. Completion of this NOTO does not automatically relieve the current permittee of any civil, criminal and/or administrative penalties. To be considered complete, the NOTO must be signed by the current permittee or a duly authorized representative of the current permittee, and must include the permit number assigned to the construction site. KDHE will notify any new permittee whose NOTO is incomplete, deficient or denied.

remed.			
TO BE COMPLETED BY THE NEW PE I hereby accept transfer of the NPDES ge I have reviewed the terms and conditions coverage, and liability. This transfer will	neral permit, which was issue of the general permit and the	Stormwater Pollution Prev	ention plan and accept full responsibility,
The NEW permittee is:			
Owner or Operator's Name:		Contact Name:	
Company Name:		Company Name:	
Owner or Operator's Phone:		Contact Phone:	
Mailing Address:		Mailing Address:	
City: State:	Zip Code:	City:	State: Zip Code:
E-mail Address (optional):		E-mail Address (optional	():
I certify that I have personally examine	ed and am familiar with the	information described he	rein.
New Permittee's Signature:			Date:
Name (type or print):		Title:	
TO BE COMPLETED BY THE CURREN	NT PERMITTEE:		
As previous permittee, I hereby agree to t responsibilities is effective when KDHE a		all responsibilities thereof.	I understand that the transfer of permit
Name of Project:			
Address:	City:	County:	State: KS Zip Code:
Kansas Permit No.: S-		Federal Permit No.: K	SR
Permittee Signature:			Date:
Permittee Name:	Title:		Phone Number:
ubmit the NOTO with original signatures v	vithin 14 days of the transfe	r to: For offici	ial use only:
Kansas Department of Health and En	vironment	Accepte	d: □ Y; □ N

Bureau of Water, Industrial Programs Section

1000 SW Jackson, Suite 420 Topeka, KS 66612 – 1367

Reviewer

Date



NOTICE OF TERMINATION

To Relinquish the Authorization to Discharge Stormwater Runoff from Construction Activities at the Construction Site Described Herein

Submission of this Notice of Termination (NOT) constitutes notice that the party identified below relinquishes authorization for coverage under the Kansas Stormwater Runoff from Construction Activities general permit, or KDHE authorized successor permits, issued for discharge of stormwater runoff for the construction activity at the site named herein. Completion of this NOT does not automatically relieve the former permittee of any civil, criminal and/or administrative penalties.

To be considered complete, the NOT must be signed by the current permittee or a duly authorized representative of the current permittee, and must include the permit number assigned to the construction activity. KDHE will notify any permittee whose NOT is incomplete or deficient.

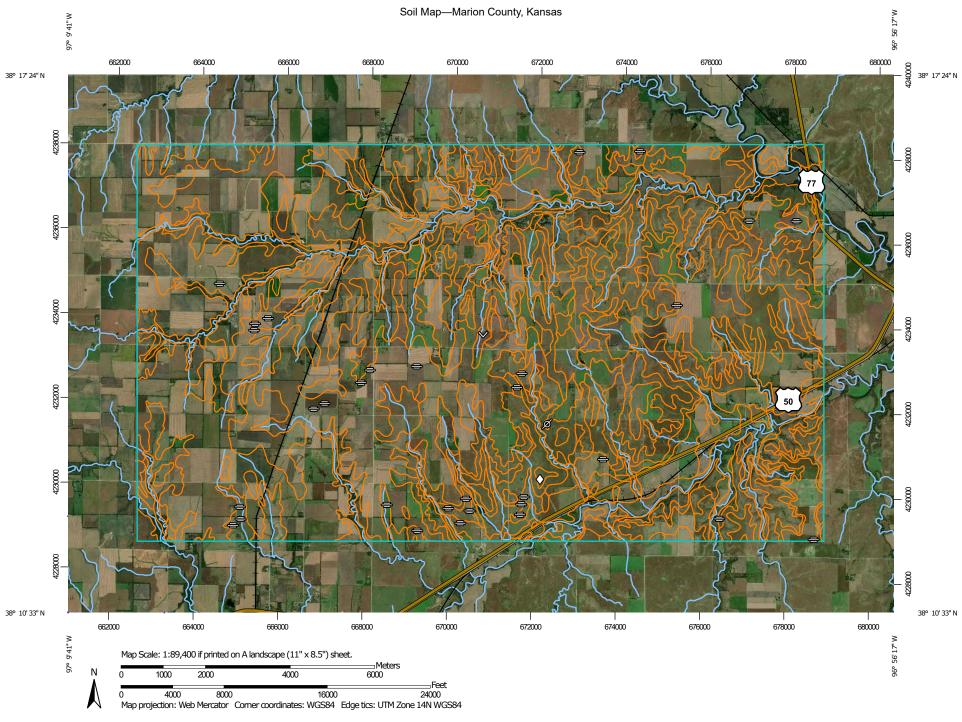
Ple	ease Print or Type:		
Na	me of Project:		
Cit	ty:	County:	State: KS
Ka	nsas Permit No.	Federal Permit No.	
Company Name:			Phone:
Th	is Notice of Termination is being submitted because:	(check one)	
	The construction project or larger common plan of (pavement, buildings, structures, or perennial vegets all areas which have been disturbed - See Part 9 of	ation having a density of	at least 70% of undisturbed areas at the site cover
	This project is a house development subdivision prat least 3 years, the vacant lots are all stabilized, an one (1.0) acre (approximately 5 lots) per year or le development (see Part 9 of the NPDES general per	d the rate of home constr ss than one (1.0) acre of	uction within the development disturbs less than
	The construction project or larger common plan of coverage* under NPDES general permit S-MCST-effect for all remaining construction activities and alfinal stabilization.	1703-1 or KDHE author	ized successor permits has been issued and is in
	* The duplicate Kansas Permit Number is:		
	The project was cancelled prior to initiating const under the current authorization for coverage. It is u application packet with first year annual permit fee	nderstood that should the	e project be revived in the future, a new complete
of this wit to y Pol	ertify under penalty of law that all soil disturbances associate the four criteria indicated above in accordance with Part 9 is Notice of Termination, I am no longer authorized under the construction activity at this construction site. I understate waters of the State is unlawful under K.S.A. 65-164 and ellution Control Permit. I understand that by submitting this DES general permit S-MCST-1703-1, K.S.A. 65-164 and the Clean Water Act. I also hereby certify that I am authorize in.	of the NPDES general permit the NPDES general permit nd that discharging pollutar 65-165 and the Clean Wates Notice of Termination, I a 65-165, the Kansas Surface	nit S-MCST-1703-1. I understand that by submitting S-MCST-1703-1 to discharge stormwater associated its in stormwater associated with construction activity and Act without authorization by a valid Kansas Water and mot released from liability for any violations of the Water Quality Standards (K.A.R. 28-16-28 et seq.)
Sig	gnature:		Date:
	me and Official Title: (Please print or type)		

Submit the NOT with original signature to:

Kansas Department of Health and Environment Bureau of Water, Industrial Programs Section 1000 SW Jackson, Suite 420 Topeka, KS 66612 - 1367

10 APPENDIX B





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

SLIND

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot
 Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

HH Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Marion County, Kansas Survey Area Data: Version 15, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

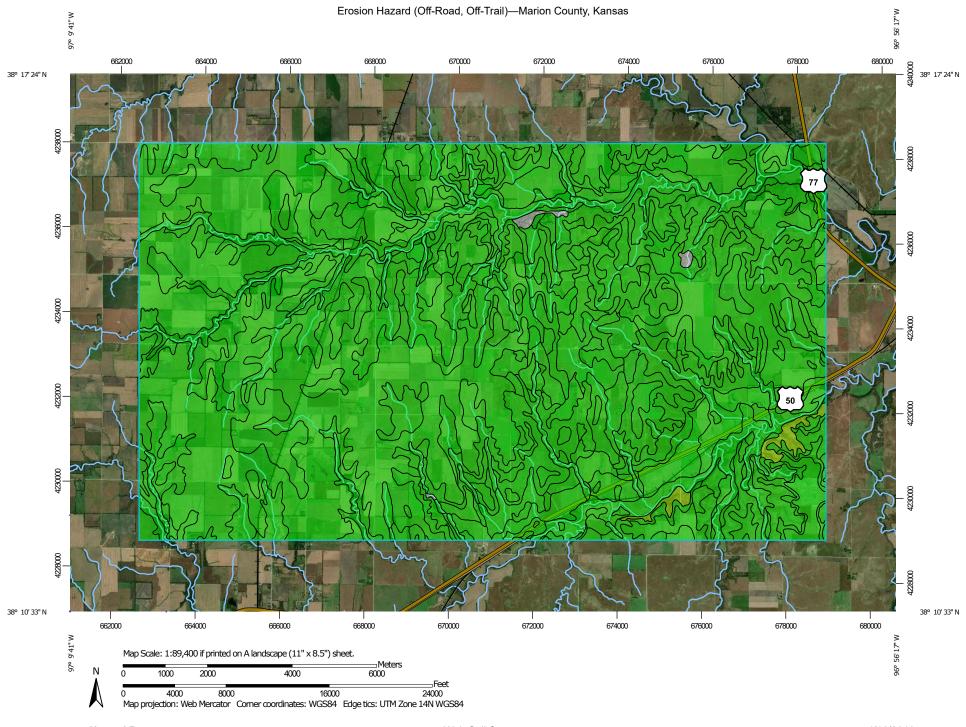
Date(s) aerial images were photographed: Aug 25, 2013—Nov 7, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3490	Wells clay loam, 3 to 7 percent slopes, eroded	12.4	0.0%
3491	Wells loam, 1 to 3 percent slopes	1,329.0	3.5%
3492	Wells loam, 3 to 7 percent slopes	54.1	0.1%
3890	Ladysmith silty clay loam, 0 to 1 percent slopes	1,038.8	2.8%
3911	Rosehill silty clay, 1 to 3 percent slopes	546.4	1.4%
4020	Chase silty clay loam, occasionally flooded	178.7	0.5%
4540	Clime silty clay loam, 1 to 3 percent slopes	5,963.5	15.8%
4555	Clime silty clay loam, 3 to 7 percent slopes	303.9	0.8%
4580	Clime stony silty clay loam, 15 to 30 percent slopes	207.8	0.6%
4590	Clime-Sogn complex, 3 to 20 percent slopes	2,039.7	5.4%
4600	Dwight silt loam, 0 to 1 percent slopes	116.3	0.3%
4650	Florence silt loam, 2 to 15 percent slopes	349.8	0.9%
4671	Irwin silty clay loam, 1 to 3 percent slopes	14,367.6	38.1%
4673	Irwin silty clay loam, 3 to 7 percent slopes	124.1	0.3%
4740	Labette silty clay loam, 1 to 3 percent slopes	1,715.2	4.5%
4744	Labette-Dwight complex, 0 to 3 percent slopes	411.1	1.1%
4746	Labette-Sogn silty clay loam, 0 to 8 percent slopes	1,528.5	4.0%
4750	Sogn silty clay loam, 0 to 10 percent slopes	1,563.9	4.1%
4783	Tully silty clay loam, 3 to 7 percent slopes	2,022.0	5.4%
7170	Reading silt loam, rarely flooded	813.6	2.2%
8203	Osage silty clay, occasionally flooded	67.3	0.2%
8300	Verdigris silt loam, channeled, 0 to 2 percent slopes, frequently flooded	1,290.4	3.4%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
8302	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	1,617.7	4.3%
9983	Gravel pits and quarries	73.5	0.2%
9999	Water	5.1	0.0%
Totals for Area of Interest		37,740.6	100.0%



MAP LEGEND

US Routes

Major Roads

Local Roads

Aerial Photography

Area of Interest (AOI) Area of Interest (AOI) Soils \sim Soil Rating Polygons Background Very severe Severe Moderate Slight Not rated or not available Soil Rating Lines Very severe Severe Moderate Not rated or not available Soil Rating Points Very severe Severe Moderate Slight Not rated or not available **Water Features**

Streams and Canals

Interstate Highways

Transportation

+++

Rails

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Marion County, Kansas Survey Area Data: Version 15, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 25, 2013—Nov 7, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Erosion Hazard (Off-Road, Off-Trail)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
3490	Wells clay loam, 3 to 7 percent slopes, eroded Slight Wells, eroded (90%) Irwin (5%) Lancaster (5%)	Slight			12.4	0.0%
			Irwin (5%)			
			Aquolls, occasionally ponded (0%)			
3491	Wells loam, 1 to	Slight	Wells (85%)		1,329.0	3.5%
	3 percent slopes		Crete (7%)			
			Lancaster (5%)			
			Ortello (3%)			
			Aquolls, occasionally ponded (0%)			
3492	Wells loam, 3 to	Slight	Wells (85%)		54.1	0.1%
	7 percent slopes		Lancaster (5%)			
Siopes	·		Edalgo (4%)			
			Hedville (2%)			
			Crete (2%)			
			Hobbs, occasionally flooded (2%)			
			Aquolls, occasionally ponded (0%)			
3890	Ladysmith silty	Slight	Ladysmith (90%)		1,038.8	2.8%
	clay loam, 0 to 1 percent		Dwight (5%)			
	slopes		Irwin (5%)			
			Aquolls (0%)			
3911	Rosehill silty	Slight	Rosehill (90%)		546.4	1.4%
	clay, 1 to 3 percent slopes		Irwin (5%)			
percent disp			Goessel (5%)			
			Aquolls, occasionally ponded (0%)			
4020	Chase silty clay loam, occasionally flooded	Slight	Chase, occasionally flooded (85%)		178.7	0.5%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Osage, ponded (5%)			
			Reading, rarely flooded (5%)			
			Ivan, occasionally flooded (5%)			
4540	Clime silty clay	Slight	Clime (90%)		5,963.5	15.8%
	loam, 1 to 3 percent slopes		Irwin (10%)			
			Aquolls, occasionally ponded (0%)			
4555	Clime silty clay	Slight	Clime (85%)		303.9	0.8%
	loam, 3 to 7 percent slopes		Irwin (8%)			
			Martin (3%)			
			Sogn (2%)			
			Kipson (2%)			
			Aquolls, occasionally ponded (0%)			
4580	Clime stony silty clay loam, 15 to 30 percent slopes	Moderate	Clime, stony (85%)	Slope/erodibility (0.50)	207.8	0.6%
4590	Clime-Sogn Slight	Slight	Clime (60%)		2,039.7	5.4%
	complex, 3 to 20 percent	complex, 3 to 20 percent	Sogn (25%)			
	slopes		Martin (5%)			
			Labette (5%)			
			Aquolls (0%)			
4600	Dwight silt loam,	Slight	Dwight (90%)		116.3	0.3%
	0 to 1 percent slopes		Irwin (5%)			
			Labette (5%)			
			Aquolls (0%)			
4650	Florence silt	Slight	Florence (85%)		349.8	0.9%
	loam, 2 to 15 percent slopes		Tully (5%)			
			Labette (5%)			
			Dwight (3%)			
			Aquolls, occasionally ponded (0%)			
4671	Irwin silty clay	Slight	Irwin (85%)		14,367.6	38.1%
	loam, 1 to 3 percent slopes		Goessel (5%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Labette (5%)			
			Dwight (5%)			
			Aquolls (0%)			
4673	Irwin silty clay	Slight	Irwin (90%)		124.1	0.3%
	loam, 3 to 7 percent slopes		Clime (10%)			
			Aquolls (0%)			
4740	Labette silty clay	Slight	Labette (85%)		1,715.2	4.5%
	loam, 1 to 3 percent slopes		Sogn (10%)			
			Dwight (3%)			
			Irwin (2%)			
			Aquolls (0%)			
4744	Labette-Dwight	Slight	Labette (55%)		411.1	1.1%
	complex, 0 to 3 percent		Dwight (35%)			
	slopes		Irwin (5%)			
			Sogn (3%)			
			Aquolls (0%)			
4746	Labette-Sogn	Slight	Labette (50%)		1,528.5	4.0%
	silty clay loam, 0 to 8 percent		Sogn (40%)			
	slopes Florence (3%) Dwight (2%)					
			Dwight (2%)			
			Aquolls (0%)			
4750			1,563.9	4.1%		
	loam, 0 to 10 percent slopes		Labette (5%)			l
			Clime (5%)			
			Aquolls, occasionally ponded (0%)			
4783	Tully silty clay	Slight	Tully (80%)		2,022.0	5.4%
	loam, 3 to 7 percent slopes		Clime (5%)			
	' '		Reading (4%)			
			Labette (3%)			
			Sogn (2%)			
			Florence (2%)			
			Martin (2%)			
			Irwin (2%)			
			Aquolls, occasionally ponded (0%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
7170	Reading silt loam, rarely	Slight	Reading, rarely flooded (90%)		813.6	2.2%
	flooded		Chase, rarely flooded (5%)			
			Ivan, occasionally flooded (3%)			
			Martin (2%)			
			Osage, occasionally flooded (0%)			
8203	Osage silty clay,	Slight	Osage (90%)		67.3	0.2%
	occasionally flooded		Solomon (5%)			
			Chase (5%)			
8300 Verdigris silt loam, channeled, 0	loam, channeled, 0	Slight	Verdigris, channeled (90%)		1,290.4	3.4%
	to 2 percent slopes, frequently		Chase, rarely flooded (10%)			
	flooded		Osage, ponded (0%)			
8302	Verdigris silt loam, 0 to 1 percent	Slight	Verdigris, occasionally flooded (90%)		1,617.7	4.3%
slopes, occasionally flooded	occasionally		Chase, rarely flooded (5%)			
			Brewer, rarely flooded (5%)			
			Osage, ponded (0%)			
9983	Gravel pits and quarries	Not rated	Pits, gravel (100%)		73.5	0.2%
9999	Water	Not rated	Water (100%)		5.1	0.0%
Totals for Area	of Interest				37,740.6	100.0%

Rating	Acres in AOI	Percent of AOI
Slight	37,454.2	99.2%
Moderate	207.8	0.6%
Null or Not Rated	78.6	0.2%
Totals for Area of Interest	37,740.6	100.0%

Description

The ratings in this interpretation indicate the hazard of soil loss from off-road and off-trail areas after disturbance activities that expose the soil surface. The ratings are based on slope and soil erosion factor K. The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance.

The ratings are both verbal and numerical. The hazard is described as "slight," "moderate," "severe," or "very severe." A rating of "slight" indicates that erosion is unlikely under ordinary climatic conditions; "moderate" indicates that some erosion is likely and that erosion-control measures may be needed; "severe" indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and "very severe" indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

RUSLE2 Related Attributes

This report summarizes those soil attributes used by the Revised Universal Soil Loss Equation Version 2 (RUSLE2) for the map units in the selected area. The report includes the map unit symbol, the component name, and the percent of the component in the map unit. Soil property data for each map unit component include the hydrologic soil group, erosion factors Kf for the surface horizon, erosion factor T, and the representative percentage of sand, silt, and clay in the mineral surface horizon. Missing surface data may indicate the presence of an organic surface layer.

Report—RUSLE2 Related Attributes

Soil properties and interpretations for erosion runoff calculations. The surface mineral horizon properties are displayed. Organic surface horizons are not displayed.

	RUSL	.E2 Relate	d Attributes-Marion	County, K	ansas			
Map symbol and soil name	Pct. of	Slope	Hydrologic group	Kf	T factor	Repre	sentative	value
	map unit	length (ft)				% Sand	% Silt	% Clay
3490—Wells clay loam, 3 to 7 percent slopes, eroded								
Wells, eroded	90	161	В	.28	5	38.0	33.0	29.0
3491—Wells loam, 1 to 3 percent slopes								
Wells	85	298	В	.32	5	38.0	42.0	20.0
3492—Wells loam, 3 to 7 percent slopes								
Wells	85	161	В	.32	5	38.0	42.0	20.0
3890—Ladysmith silty clay loam, 0 to 1 percent slopes								
Ladysmith	90	200	D	.37	5	7.0	60.0	33.0
3911—Rosehill silty clay, 1 to 3 percent slopes								
Rosehill	90	298	D	.28	3	5.0	54.0	41.0
4020—Chase silty clay loam, occasionally flooded								
Chase, occasionally flooded	85	200	D	.37	5	4.0	66.0	30.0
4540—Clime silty clay loam, 1 to 3 percent slopes								
Clime	90	298	D	.32	3	8.0	56.0	36.0
4555—Clime silty clay loam, 3 to 7 percent slopes								
Clime	85	161	D	.32	3	8.0	56.0	36.0

	RUSL	.E2 Relate	d Attributes–Marion	County, I	Kansas			
Map symbol and soil name	Pct. of	Slope	Hydrologic group	Kf	T factor	Repre	sentative	value
	map unit	length (ft)				% Sand	% Silt	% Clay
4580—Clime stony silty clay loam, 15 to 30 percent slopes								
Clime, stony	85	49	D	.32	3	8.0	56.0	36.0
4590—Clime-Sogn complex, 3 to 20 percent slopes								
Clime	60	89	D	.24	3	5.0	54.0	41.0
Sogn	25	125	D	.37	1	9.0	60.0	31.0
4600—Dwight silt loam, 0 to 1 percent slopes								
Dwight	90	200	D	.43	2	7.0	70.0	23.0
4650—Florence silt loam, 2 to 15 percent slopes								
Florence	85	125	С	.37	3	10.0	66.0	24.0
4671—Irwin silty clay loam, 1 to 3 percent slopes								
Irwin	85	298	D	.37	5	8.0	59.0	33.0
4673—Irwin silty clay loam, 3 to 7 percent slopes								
Irwin	90	161	D	.37	5	8.0	59.0	33.0
4740—Labette silty clay loam, 1 to 3 percent slopes								
Labette	85	298	D	.32	2	4.0	61.0	35.0
4744—Labette-Dwight complex, 0 to 3 percent slopes								
Labette	55	298	D	.32	2	4.0	61.0	35.0
Dwight	35	298	D	.43	2	7.0	70.0	23.0
4746—Labette-Sogn silty clay loam, 0 to 8 percent slopes								
Labette	50	161	D	.32	2	4.0	61.0	35.0
Sogn	40	141	D	.37	1	9.0	60.0	31.0
4750—Sogn silty clay loam, 0 to 10 percent slopes								
Sogn	90	161	D	.28	1	10.0	55.0	35.0
4783—Tully silty clay loam, 3 to 7 percent slopes								
Tully	80	161	С	.32	5	5.0	62.0	33.0
7170—Reading silt loam, rarely flooded								
Reading, rarely flooded	90	200	С	.37	5	6.0	70.0	24.0

RUSLE2 Related Attributes–Marion County, Kansas										
Map symbol and soil name	Pct. of	Slope	Hydrologic group	Kf	T factor	Repre	sentative	ive value		
	map unit	length (ft)				% Sand	% Silt	% Clay		
8203—Osage silty clay, occasionally flooded										
Osage	90	397	D	.20	5	1.0	41.0	58.0		
8300—Verdigris silt loam, channeled, 0 to 2 percent slopes, frequently flooded										
Verdigris, channeled	90	200	В	.37	5	15.0	62.0	23.0		
8302—Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded										
Verdigris, occasionally flooded	90	200	В	.37	5	15.0	62.0	23.0		

Data Source Information

Soil Survey Area: Marion County, Kansas Survey Area Data: Version 15, Sep 12, 2018

11 APPENDIX C



2018 303(d) List of All Impaired & Potentially Impaired Waters



Bureau of Water

Watershed Planning, Monitoring, and Assessment Section

April 13, 2018

This list is organized alphabetically by:

Major River Basin

- ➤ Subbasin (HUC 12)
 - Category
 - > Impairment
 - > Stream/Lake

Explanation of Column Headers

Cat.: Reporting category for the listed water:

Cat. 2: Water was previously listed as impaired but now has water quality sufficient to support its designated uses.

Cat. 3: There is insufficient available data and/or information to make a use support designation.

Cat. 4a: A Total Maximum Daily Load (TMDL) has been developed for the waterbody/combination.

Cat 4b: Alternative to TMDLs – NPDES permits are addressing the impairment or an atrazine impairment is being addressed utilizing a watershed plan.

Cat 5: Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

Stream/Lake: Registered stream where sampling station is located or a Registered Lake.

Impaired Use: The designated use under assessment: Aquatic Life, Recreation, Water Supply, or Food Procurement.

Impairment: The pollutant impairing the designated use of the stream.

Station: Unique identifier indicating KDHE stream chemistry (SC) monitoring station or KDHE lake monitoring (LM) station where data for assessment is collected.

Counties: Counties where the stream watershed or lake is located.

Body Type:

Watershed: Impairment applies to the stream watershed monitored at the SC station indicated.

Lake: Impairment applies to a lake waterbody as monitored at the LM station indicated.

Facility: Impairment has been linked to a NPDES discharging facility.

Priority:

Years 2017-2020: TMDL is scheduled for development for the year indicated.

Years 2022-2023: TMDL not yet scheduled for development but may be addressed during

TMDL development planning during 2022-2023.

High-Medium-Low: Indicates TMDL implementation priority.

Blank: Applies to Category 3 waters and implies more data is needed before assigning priority.

2018 303(d) List of All Impaired/Potentially Impaired Waters

Cimarron River Basin

			Cimarron Riv	er Basın			
1104 Uppe	0002 er Cimarron						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Point of Rocks Lake (Moss Lake West)	Aquatic Life	Eutrophication	LM060501	MT	Lake	2023
5	Point of Rocks Lake (Moss Lake West)	Water Supply	Fluoride	LM060501	MT	Lake	2023
5	Point of Rocks Lake (Moss Lake West)	Water Supply	Sulfate	LM060501	MT	Lake	2023
3	Point of Rocks Lake (Moss Lake West)	Aquatic Life	Dissolved Oxygen	LM060501	MT	Lake	
1104	0006						
Uppe	r Cimarron-Liberal						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cimarron River Near Forgan, Oklahoma	Aquatic Life	Dissolved Oxygen	SC222	ME, MT, SV, SW	Watershed	2023
5	Cimarron River Near Forgan, Oklahoma	Aquatic Life	Selenium	SC222	ME, MT, SV, SW	Watershed	2023
5	Cimarron River Near Forgan, Oklahoma	Aquatic Life	Total Phosphorus	SC222	ME, MT, SV, SW	Watershed	2023
4a	Cimarron River Near Forgan, Oklahoma	Water Supply	Chloride	SC222	ME, MT, SV, SW	Watershed	Low
4a	Cimarron River Near Forgan, Oklahoma	Aquatic Life	рН	SC222	ME, MT, SV, SW	Watershed	Low
1104	0007						
Croo	ked Creek						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Crooked Creek Near Englewood	Aquatic Life	Dissolved Oxygen	SC600	GY, HS, ME	Watershed	2023
5	Crooked Creek Near Englewood	Water Supply	Fluoride	SC600	GY, HS, ME	Watershed	2023
5	Lake Meade State Park	Water Supply	Fluoride	LM010601	ME	Lake	2023
4a	Lake Meade State Park	Recreation	Aquatic Plants	LM010601	ME	Lake	High
4a	Crooked Creek Near Englewood	Water Supply	Chloride	SC600	GY, HS, ME	Watershed	Low
4a	Lake Meade State Park	Aquatic Life	Dissolved Oxygen	LM010601	ME	Lake	High
4a	Lake Meade State Park	Aquatic Life	Eutrophication	LM010601	ME	Lake	High
4a	Lake Meade State Park	Aquatic Life	рН	LM010601	ME	Lake	High
3	Crooked Creek Near	Recreation	E. coli	SC600	GY, HS, ME	Watershed	

Englewood

11040008 Upper Cimarron-Bluff

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bluff Creek Near Protection	Water Supply	Chloride	SC593	CA, CM	Watershed	2023
5	Big Sandy Creek Near Ashland	Aquatic Life	Dissolved Oxygen	SC738	ME, CA	Watershed	2023
5	Day Creek Near Sitka	Aquatic Life	Dissolved Oxygen	SC701	CA, CM	Watershed	2023
5	Clark Co. SFL	Aquatic Life	Eutrophication	LM010101	CA	Lake	2023
5	Big Sandy Creek Near Ashland	Water Supply	Fluoride	SC738	ME, CA	Watershed	2023
5	St. Jacobs Well (Big Basin W.A.)	Water Supply	Fluoride	LM060001	CA	Lake	2023
4a	Big Sandy Creek Near Ashland	Water Supply	Chloride	SC738	ME, CA	Watershed	Low
4a	Cimarron River Near Protection	Water Supply	Chloride	SC592	ME, CA	Watershed	Low
4a	Day Creek Near Sitka	Water Supply	Chloride	SC701	CA, CM	Watershed	Low
4a	Cavalry Creek Near Protection	Recreation	E. coli	SC624	KW, CM	Watershed	Medium
4a	Lake Coldwater	Aquatic Life	Eutrophication	LM042601	CM	Lake	Low
4a	St. Jacobs Well (Big Basin W.A.)	Aquatic Life	Eutrophication	LM060001	CA	Lake	High
4a	Big Sandy Creek Near Ashland	Water Supply	Sulfate	SC738	ME, CA	Watershed	Low

Kansas Lower Republican River Basin

10250016 Middle Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	White Rock Creek Near Burr Oak	Water Supply	Arsenic	SC508	JW, SM	Watershed	2023
5	Republican River Near Hardy, Nebraska	Aquatic Life	Biology	SC231	JW, SM	Watershed	2023
5	Republican River Near Hardy, Nebraska	Water Supply	Gross Alpha	SC231	JW, SM	Watershed	2023
5	Republican River Near Hardy, Nebraska	Aquatic Life	Total Phosphorus	SC231	JW, SM	Watershed	2023
5	White Rock Creek Near Burr Oak	Aquatic Life	Total Phosphorus	SC508	JW, SM	Watershed	2023
5	White Rock Creek Near Burr Oak	Aquatic Life	Total Suspended Solids	SC508	JW, SM	Watershed	2023
4a	Republican River Near Hardy, Nebraska	Recreation	E. coli	SC231	JW, SM	Watershed	Low
4a	White Rock Creek Near Burr Oak	Recreation	E. coli	SC508	JW, SM	Watershed	Low
4a	Lovewell Lake	Aquatic Life	Eutrophication	LM015001	JW	Lake	Low
4a	Republican River Near Hardy, Nebraska	Aquatic Life	Eutrophication	SC231	JW, SM	Lake	High

10250	0016
Midd	le Republican
Cat.	Stream/Lake

Impaired Use

Impairment

Station

Counties

Body Type

Priority

4a	Lovewell Lake	Aquatic Life	рН	LM015001	JW	Lake	Low					
4a	White Rock Creek Near Burr Oak	Aquatic Life	Selenium	SC508	JW, SM	Watershed	Low					
4a	White Rock Creek Near Burr Oak	Water Supply	Sulfate	SC508	JW, SM	Watershed	Low					
10250	10250017											
Lowe	Lower Republican											
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority					
5	Buffalo Creek Near Concordia	Water Supply	Arsenic	SC509	JW, CD	Watershed	2023					
5	Wolf Creek Near Concordia	Water Supply	Arsenic	SC707	CD	Watershed	2023					
5	Republican River Near Clay Center	Aquatic Life	Biology	SC503	CY	Watershed	2022					
5	Republican River Near Rice	Aquatic Life	Biology	SC510	JW, RP, CD	Watershed	2023					
5	Salt Creek Near Hollis	Water Supply	Chloride	SC650	RP	Watershed	2023					
5	Elm Creek Near Ames	Aquatic Life	Copper	SC709	CD	Watershed	2023					
5	Mulberry Creek Near Clifton	Aquatic Life	Copper	SC710	CD, CY	Watershed	2023					
5	Peats Creek Near Clifton	Aquatic Life	Copper	SC649	WS	Watershed	2023					
5	Wolf Creek Near Concordia	Aquatic Life	Dissolved Oxygen	SC707	CD	Watershed	2022					
5	Buffalo Creek Near Concordia	Aquatic Life	Selenium	SC509	JW, CD	Watershed	2023					
5	Buffalo Creek Near Concordia	Water Supply	Sulfate	SC509	JW, CD	Watershed	2023					
5	Five Creek Near Clay Center	Water Supply	Sulfate	SC711	CD, CY	Watershed	2023					
5	Buffalo Creek Near Concordia	Aquatic Life	Total Phosphorus	SC509	JW, CD	Watershed	2019					
5	Elm Creek Near Ames	Aquatic Life	Total Phosphorus	SC709	CD	Watershed	2019					
5	Mulberry Creek Near Clifton	Aquatic Life	Total Phosphorus	SC710	CD, CY	Watershed	2019					
5	Peats Creek Near Clifton	Aquatic Life	Total Phosphorus	SC649	WS	Watershed	2019					
5	Republican River Near Clay Center	Aquatic Life	Total Phosphorus	SC503	CY	Watershed	2019					
5	Republican River Near Clay Center	Aquatic Life	Total Phosphorus	SC504	RP, WS, CD, CY	Watershed	2019					
5	Republican River Near Rice	Aquatic Life	Total Phosphorus	SC510	JW, RP, CD	Watershed	2019					
5	Salt Creek Near Hollis	Aquatic Life	Total Phosphorus	SC650	RP	Watershed	2019					
5	Wolf Creek Near Concordia	Aquatic Life	Total Phosphorus	SC707	CD	Watershed	2019					
5	Buffalo Creek Near Concordia	Aquatic Life	Total Suspended Solids	SC509	JW, CD	Watershed	2023					
5	Republican River Near Clay Center	Aquatic Life	Total Suspended Solids	SC504	RP, WS, CD, CY	Watershed	2023					
5	Republican River Near Clay Center	Aquatic Life	Total Suspended Solids	SC503	CY	Watershed	2023					
المال	N4						D 2 - f 5 4					

102500	017	
Lower	Repu	blicar

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Creek Near Hollis	Aquatic Life	Total Suspended Solids	SC650	RP	Watershed	2023
4a	Milford Lake	Aquatic Life	Dissolved Oxygen	LM019001	CY, RL, GE	Lake	High
4a	Rimrock Park Lake	Aquatic Life	Dissolved Oxygen	LM070501	GE	Lake	Medium
4a	Salt Creek Near Hollis	Aquatic Life	Dissolved Oxygen	SC650	RP	Watershed	High
4a	Republican River Near Clay Center	Recreation	E. coli	SC503	СҮ	Watershed	Medium
4a	Republican River Near Clay Center	Recreation	E. coli	SC504	RP, WS, CD, CY	Watershed	Medium
4a	Republican River Near Rice	Recreation	E. coli	SC510	JW, RP, CD	Watershed	Medium
4a	Salt Creek Near Hollis	Recreation	E. coli	SC650	RP	Watershed	High
4a	Belleville City Lake	Aquatic Life	Eutrophication	LM060701	RP	Lake	Low
4a	Buffalo Creek Near Concordia	Aquatic Life	Eutrophication	SC509	JW, CD	Lake	High
4a	Elm Creek Near Ames	Aquatic Life	Eutrophication	SC709	CD	Lake	High
4a	Five Creek Near Clay Center	Aquatic Life	Eutrophication	SC711	CD, CY	Lake	High
4a	Jamestown W.A.	Aquatic Life	Eutrophication	LM052801	CD	Lake	Low
4a	Milford Lake	Aquatic Life	Eutrophication	LM019001	CY, RL, GE	Lake	High
4a	Mulberry Creek Near Clifton	Aquatic Life	Eutrophication	SC710	CD, CY	Lake	High
4a	Peats Creek Near Clifton	Aquatic Life	Eutrophication	SC649	WS	Lake	High
4a	Republican River Near Clay Center	Aquatic Life	Eutrophication	SC503	CY	Lake	High
4a	Republican River Near Clay Center	Aquatic Life	Eutrophication	SC504	RP, WS, CD, CY	Lake	High
4a	Republican River Near Rice	Aquatic Life	Eutrophication	SC510	JW, RP, CD	Lake	High
4a	Rimrock Park Lake	Aquatic Life	Eutrophication	LM070501	GE	Lake	Medium
4a	Salt Creek Near Hollis	Aquatic Life	Eutrophication	SC650	RP	Lake	High
4a	Wolf Creek Near Concordia	Aquatic Life	Eutrophication	SC707	CD	Lake	High
4a	Buffalo Creek Near Concordia	Recreation	Fecal Coli	SC509	JW, CD	Watershed	Low
4a	Jamestown W.A.	Recreation	Fecal Coli	LM052801	CD	Lake	Low
4a	Jamestown W.A.	Aquatic Life	рН	LM052801	CD	Lake	Low
	Jamestown W.A.	Water Supply	Siltation	LM052801	CD	Lake	Low
4a	Jamestown W.A.						
4a 3	Jamestown W.A.	Water Supply	Arsenic	LM052801	CD	Lake	
		Water Supply Recreation	Arsenic E. coli	LM052801 SC709	CD CD	Lake Watershed	

1027	0101						
	r Kansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Kansas River Near Ogden	Aquatic Life	Total Suspended Solids	SC518	RL, GE	Watershed	2023
4a	Wildcat Creek Near Manhattan	Aquatic Life	Dissolved Oxygen	SC652	RL	Watershed	High
4a	Kansas River Near Ogden	Recreation	E. coli	SC518	RL, GE	Watershed	Medium
4a	Wildcat Creek Near Manhattan	Recreation	E. coli	SC652	RL	Watershed	High
4a	Ogden City Lake	Aquatic Life	Eutrophication	LM011701	RL	Lake	Low
4a	Kansas River Near Ogden	Water Supply	Sulfate	SC518	RL, GE	Watershed	Low
4a	Kansas River Near Ogden	Aquatic Life	Total Phosphorus	SC518	RL, GE	Watershed	High
3	Sevenmile Creek Near Ogden	Aquatic Life	Biology	SC759	RL	Watershed	
L027 Vlidd	0102 le Kansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Lost Creek Near Belvue	Water Supply	Arsenic	SC755	PT	Watershed	2023
5	Soldier Creek Near Delia	Aquatic Life	Atrazine	SC101	NM, JA	Watershed	2023
5	Soldier Creek Near Topeka	Aquatic Life	Atrazine	SC239	JA, SN	Watershed	2023
5	Vermillion Creek Near Louisville	Aquatic Life	Atrazine	SC520	PT, SN, WB	Watershed	2023
5	Halfday Creek	Aquatic Life	Biology	SB376	SN, JA	Watershed	2023
5	Kansas River At Wamego	Aquatic Life	Biology	SC260	RI, PT, WB	Watershed	2022
5	Kansas River At Willard	Aquatic Life	Biology	SC259	PT, SN, WB	Watershed	2022
5	Mission Creek Near Valencia	Aquatic Life	Biology	SC648	SN, WB	Watershed	2023
5	Vermillion Creek Near Louisville	Aquatic Life	Biology	SC520	PT, SN, WB	Watershed	2023
5	Pottawatomie Co. SFL #1	Aquatic Life	Dissolved Oxygen	LM012901	PT	Lake	2022
5	Mission Creek Near Valencia	Recreation	E. coli	SC648	SN, WB	Watershed	2023
5	Muddy Creek Near Grantville	Recreation	E. coli	SC639	JA, JF, SN	Watershed	2023
5	Soldier Creek Near Topeka	Recreation	E. coli	SC239	JA, SN	Watershed	2023
5	Pottawatomie Co. SFL #1	Aquatic Life	Eutrophication	LM012901	PT	Lake	2022
5	Topeka Public Golf Course Lake	Aquatic Life	Eutrophication	LM050101	SN	Lake	2023
5	Lost Creek Near Belvue	Aquatic Life	Selenium	SC755	PT	Watershed	2023
5	Kansas River At Wamego	Aquatic Life	Total Suspended Solids	SC260	RI, PT, WB	Watershed	2023

Kansas River At Willard

Aquatic Life

Total Suspended

Solids

SC259

PT, SN, WB

Watershed

5

2023

10270102 Middle Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Soldier Creek Near Delia	Aquatic Life	Total Suspended Solids	SC101	NM, JA	Watershed	2023
4a	Warren Park Lake	Recreation	Aquatic Plants	LM062001	SN	Lake	Low
4a	Soldier Creek Near Circleville	Aquatic Life	Biology	SC299	JA, NM	Watershed	High
4a	Soldier Creek Near Delia	Aquatic Life	Biology	SC101	NM, JA	Watershed	High
4a	Cross Creek Near Rossville	Recreation	E. coli	SC551	JA, PT	Watershed	High
4a	Kansas River At Willard	Recreation	E. coli	SC259	PT, SN, WB	Watershed	High
4a	Rock Creek Near Louisville	Recreation	E. coli	SC645	PT	Watershed	High
4a	Shunganunga Creek Near Topeka	Recreation	E. coli	SC238	SN	Watershed	High
4a	Vermillion Creek Near Louisville	Recreation	E. coli	SC520	PT, SN, WB	Watershed	High
4a	Vermillion Creek Near Onaga	Recreation	E. coli	SC681	NM, PT	Watershed	High
4a	Central Park Lake	Aquatic Life	Eutrophication	LM060901	SN	Lake	Low
4a	Gage Park Lake	Aquatic Life	Eutrophication	LM061101	SN	Lake	Low
4a	Lake Shawnee	Aquatic Life	Eutrophication	LM012201	SN	Lake	High
4a	Myer's Lake	Aquatic Life	Eutrophication	LM075201	SN	Lake	Low
4a	Wamego City Lake	Aquatic Life	Eutrophication	LM062101	PT	Lake	Low
4a	Warren Park Lake	Aquatic Life	Eutrophication	LM062001	SN	Lake	Low
4a	Kansas River At Topeka	Recreation	Fecal Coli	SC258	PT, SN, WB	Watershed	Medium
4a	Kansas River At Wamego	Recreation	Fecal Coli	SC260	RI, PT, WB	Watershed	Medium
4a	Kansas River At Wamego	Aquatic Life	Total Phosphorus	SC260	RI, PT, WB	Watershed	High
4a	Kansas River At Willard	Aquatic Life	Total Phosphorus	SC259	PT, SN, WB	Watershed	High
4a	Shunganunga Creek Near Topeka	Aquatic Life	Total Phosphorus	SC238	SN	Watershed	High
3	Deep Creek	Aquatic Life	Biology	SB410	RL	Watershed	
3	Deep Creek Near Manhattan	Aquatic Life	Biology	SC647	RL	Watershed	
3	Illinois Creek Near Alma	Aquatic Life	Biology	SC726	WB	Watershed	
3	West Branch Mill Creek Near Alma	Aquatic Life	Biology	SC506	GE, WB	Watershed	
3	Shunganunga Creek Near Topeka	Aquatic Life	Diazinon	SC238	SN	Watershed	
3	Alma City Lake	Aquatic Life	Eutrophication	LM050001	WB	Lake	
3	Dornwood Park Lake	Aquatic Life	Eutrophication	LM062301	SN	Lake	
3	Pillsbury Crossing W.A.	Food Procurement	Mercury	LM020301	RL	Lake	
3	Wamego City Lake	Food Procurement	Mercury	LM062101	PT	Lake	
3	Myer's Lake	Aquatic Life	рН	LM075201	SN	Lake	

10270103
Delaware

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Delaware River at Hwy 36	Aquatic Life	Biology	SB352	BR, NM	Watershed	2023
5	Delaware River Near Half Mound	Aquatic Life	Biology	SC554	NM, BR, JA, AT	Watershed	2022
5	Atchison Co. Park Lake	Aquatic Life	Eutrophication	LM060601	AT	Lake	2023
5	Banner Creek Lake	Aquatic Life	Eutrophication	LM032001	JA	Lake	2023
5	Elkhorn Lake	Aquatic Life	Eutrophication	LM061001	JA	Lake	2023
5	Nebo SFL	Aquatic Life	Eutrophication	LM061501	JA	Lake	2023
5	Prairie Lake	Aquatic Life	Eutrophication	LM061901	JA	Lake	2022
5	Atchison Co. Park Lake	Water Supply	Siltation	LM060601	AT	Lake	2023
5	Delaware River Near Half Mound	Aquatic Life	Total Phosphorus	SC554	NM, BR, JA, AT	Watershed	2019
5	Elk Creek Near Larkinburg	Aquatic Life	Total Phosphorus	SC604	JA, PT	Watershed	2019
5	Grasshopper Creek Near Muscotah	Aquatic Life	Total Phosphorus	SC603	BR, AT	Watershed	2019
4a	Grasshopper Creek Near Muscotah	Aquatic Life	Atrazine	SC603	BR, AT	Watershed	Low
4a	Mission Lake	Aquatic Life	Atrazine	LM013601	BR	Lake	High
4a	Perry W.A. Wetland	Aquatic Life	Dissolved Oxygen	LM029041	JF	Lake	Low
4a	Delaware River Near Half Mound	Recreation	E. coli	SC554	NM, BR, JA, AT	Watershed	High
4a	Elk Creek Near Larkinburg	Recreation	E. coli	SC604	JA, PT	Watershed	High
4a	Grasshopper Creek Near Muscotah	Recreation	E. coli	SC603	BR, AT	Watershed	High
4a	Straight Creek Near Larkinburg	Recreation	E. coli	SC686	NM, JA	Watershed	High
4a	Little Lake	Aquatic Life	Eutrophication	LM062601	BR	Lake	Low
4a	Mission Lake	Aquatic Life	Eutrophication	LM013601	BR	Lake	High
4a	Perry Lake	Aquatic Life	Eutrophication	LM029001	JA, JF	Lake	High
4a	Perry W.A. Wetland	Aquatic Life	Eutrophication	LM029041	JF	Lake	High
4a	Sabetha Watershed Lake (Niehues)	Aquatic Life	Eutrophication	LM075101	NM	Lake	Low
4a	Mission Lake	Water Supply	Siltation	LM013601	BR	Lake	High
3	Rock Creek Near Rock	Recreation	E. coli	SC684	JA, JF	Watershed	
3	Lake Jayhawk	Aquatic Life	Eutrophication	LM039701	JF	Lake	

10270104

Lower Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Turkey Creek	Aquatic Life	Ammonia	NPDES55492	JO	Facility	2022
5	Captain Creek Near Eudora	Aquatic Life	Atrazine	SC638	DG, JO	Watershed	2023

1	0270	1	04	ļ.	
i.	OWA	r I	(2	nc	2

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Crooked Creek Near Winchester	Aquatic Life	Atrazine	SC683	JF	Watershed	2023
5	Kansas River At Kansas City, Kansas	Aquatic Life	Atrazine	SC203	LV, WY, JO	Watershed	2023
5	Kill Creek At Desoto	Aquatic Life	Atrazine	SC253	JO	Watershed	2023
5	Stranger Creek Near Easton	Aquatic Life	Atrazine	SC602	AT, JF, LV	Watershed	2023
5	Stranger Creek Near Linwood	Aquatic Life	Atrazine	SC501	LV	Watershed	2023
5	Stranger Creek Near Easton	Aquatic Life	Biology	SC602	AT, JF, LV	Watershed	2023
5	Stranger Creek Near Linwood	Aquatic Life	Biology	SC501	LV	Watershed	2023
5	Wakarusa River Near Eudora	Aquatic Life	Biology	SC500	DG	Watershed	2023
5	Antioch Park Lake	Aquatic Life	Eutrophication	LM067701	JO	Lake	2023
5	Baker Wetlands	Aquatic Life	Eutrophication	LM014401	DG	Wetland	2022
5	Carbondale West Lake	Aquatic Life	Eutrophication	LM060801	OS	Lake	2022
5	Douglas Co. SFL	Aquatic Life	Eutrophication	LM011301	DG	Lake	2022
5	Lake Quivera	Aquatic Life	Eutrophication	LM022701	JO	Lake	2023
5	Leavenworth Co. SFL	Aquatic Life	Eutrophication	LM012301	LV	Lake	2022
5	Lenexa Lake	Aquatic Life	Eutrophication	LM022601	JO	Lake	2022
5	Mahaffie Farmstead Lake	Aquatic Life	Eutrophication	LM020401	JO	Lake	2023
5	Overbrook Lake	Aquatic Life	Eutrophication	LM020501	OS	Lake	2023
5	Rose's Lake	Aquatic Life	Eutrophication	LM062501	JO	Lake	2022
5	Strowbridge Reservoir	Aquatic Life	Eutrophication	LM051201	OS	Lake	2022
5	Baker Wetlands	Aquatic Life	Lead	LM014401	DG	Wetland	2023
5	Kansas River At Eudora	Food Procurement	PCB	SC255	JF, LV, DG	Watershed	2023
5	Baker Wetlands	Aquatic Life	рН	LM014401	DG	Wetland	2022
5	Crooked Creek Near Winchester	Aquatic Life	Total Phosphorus	SC683	JF	Watershed	2017
5	Stranger Creek Near Easton	Aquatic Life	Total Phosphorus	SC602	AT, JF, LV	Watershed	2017
5	Kansas River At Desoto	Aquatic Life	Total Suspended Solids	SC254	LV, JO	Watershed	2023
5	Kansas River At Eudora	Aquatic Life	Total Suspended Solids	SC255	JF, LV, DG	Watershed	2023
5	Kansas River At Kansas City, Kansas	Aquatic Life	Total Suspended Solids	SC203	LV, WY, JO	Watershed	2023
5	Kansas River At Lecompton	Aquatic Life	Total Suspended Solids	SC257	JF, SN, DG	Watershed	2023
5	Stranger Creek Near Easton	Aquatic Life	Total Suspended Solids	SC602	AT, JF, LV	Watershed	2023
5	Wakarusa River Near Eudora	Aquatic Life	Total Suspended Solids	SC500	DG	Watershed	2023

10270104 Lower Kansas

LOVVC	i Kansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Lakeview Estates Lake	Recreation	Aquatic Plants	LM075301	SN	Lake	Low
4a	Crooked Creek Near Winchester	Aquatic Life	Biology	SC683	JF	Watershed	Low
4a	Kansas River At Desoto	Aquatic Life	Biology	SC254	LV, JO	Watershed	Medium
4a	Kansas River At Eudora	Aquatic Life	Biology	SC255	JF, LV, DG	Watershed	Medium
4a	Kansas River At Kansas City, Kansas	Aquatic Life	Biology	SC203	LV, WY, JO	Watershed	Medium
4a	Kansas River At Lecompton	Aquatic Life	Biology	SC257	JF, SN, DG	Watershed	Medium
4a	Mill Creek Near Shawnee	Aquatic Life	Biology	SC251	JO	Watershed	High
4a	Wakarusa River Near Topeka	Aquatic Life	Biology	SC109	SN, OS	Watershed	High
4a	Kansas River At Desoto	Aquatic Life	Biology/Sediment	SC254	LV, JO	Watershed	Medium
4a	Kansas River At Kansas City, Kansas	Aquatic Life	Biology/Sediment	SC203	LV, WY, JO	Watershed	Medium
4a	Mill Creek Near Shawnee	Aquatic Life	Biology/Sediment	SC251	10	Watershed	Medium
4a	Wakarusa River Near Topeka	Aquatic Life	Biology/Sediment	SC109	SN, OS	Watershed	High
4a	Antioch Park Lake	Food Procurement	Chlordane	LM067701	JO	Lake	Low
4a	Mill Creek Near Shawnee	Water Supply	Chloride	SC251	JO	Watershed	Low
4a	Stranger Creek Near Easton	Aquatic Life	Copper	SC602	AT, JF, LV	Watershed	Low
4a	Baker Wetlands	Aquatic Life	Dissolved Oxygen	LM014401	DG	Wetland	High
4a	Gardner City Lake	Aquatic Life	Dissolved Oxygen	LM040401	10	Lake	High
4a	Mary's Lake	Aquatic Life	Dissolved Oxygen	LM061401	DG	Lake	Medium
4a	Sunflower Park Lake	Aquatic Life	Dissolved Oxygen	LM073601	10	Lake	Medium
4a	Washington Creek Near Lawrence	Aquatic Life	Dissolved Oxygen	SC678	DG	Watershed	High
4a	Cedar Creek Near Cedar Junction	Recreation	E. coli	SC252	JO	Watershed	High
4a	Coal Creek Near Sibleyville	Recreation	E. coli	SC679	DG	Watershed	Medium
4a	Kansas River At Desoto	Recreation	E. coli	SC254	LV, JO	Watershed	High
4a	Kansas River At Eudora	Recreation	E. coli	SC255	JF, LV, DG	Watershed	High
4a	Kansas River At Kansas City, Kansas	Recreation	E. coli	SC203	LV, WY, JO	Watershed	High
4a	Kansas River At Lecompton	Recreation	E. coli	SC257	JF, SN, DG	Watershed	High
4a	Kill Creek At Desoto	Recreation	E. coli	SC253	JO	Watershed	High
4a	Mill Creek Near Shawnee	Recreation	E. coli	SC251	JO	Watershed	High
4a	Stranger Creek Near Easton	Recreation	E. coli	SC602	AT, JF, LV	Watershed	High
4a	Stranger Creek Near Linwood	Recreation	E. coli	SC501	LV	Watershed	High
4a	Wakarusa River Near Eudora	Recreation	E. coli	SC500	DG	Watershed	High

10270	104
Lower	Kansas

Lowe	r Kansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Wakarusa River Near Topeka	Recreation	E. coli	SC109	SN, OS	Watershed	High
4a	Cedar Lake	Aquatic Life	Eutrophication	LM061601	JO	Lake	High
4a	Clinton Lake	Aquatic Life	Eutrophication	LM030001	SN, DG, OS	Lake	High
4a	Frisco Lake	Aquatic Life	Eutrophication	LM065201	JO	Lake	Low
4a	Gardner City Lake	Aquatic Life	Eutrophication	LM040401	JO	Lake	High
4a	Lakeview Estates Lake	Aquatic Life	Eutrophication	LM075301	SN	Lake	Low
4a	Lone Star Lake	Aquatic Life	Eutrophication	LM011401	DG	Lake	Low
4a	Mary's Lake	Aquatic Life	Eutrophication	LM061401	DG	Lake	Medium
4a	New Olathe Lake	Aquatic Life	Eutrophication	LM061301	JO	Lake	High
4a	Olathe Waterworks Lakes	Aquatic Life	Eutrophication	LM062201	JO	Lake	Low
4a	Pierson Park Lake	Aquatic Life	Eutrophication	LM061801	WY	Lake	Low
4a	Potter's Lake	Aquatic Life	Eutrophication	LM073401	DG	Lake	Low
4a	Sunflower Park Lake	Aquatic Life	Eutrophication	LM073601	JO	Lake	Medium
4a	Buck Creek Near Williamstown	Recreation	Fecal Coli	SC677	JF	Watershed	Medium
4a	Nine Mile Creek Near Linwood	Recreation	Fecal Coli	SC680	JF, LV, DG	Watershed	High
4a	Nine Mile Creek Near Linwood	Aquatic Life	Lead	SC680	JF, LV, DG	Watershed	Low
4a	Stranger Creek Near Easton	Aquatic Life	Lead	SC602	AT, JF, LV	Watershed	Low
4a	Stranger Creek Near Linwood	Aquatic Life	Lead	SC501	LV	Watershed	Low
4a	Cedar Creek Near Cedar Junction	Water Supply	Nitrate	SC252	JO	Watershed	High
4a	Mary's Lake	Aquatic Life	рН	LM061401	DG	Lake	Medium
4a	Cedar Creek Near Cedar Junction	Aquatic Life	Total Phosphorus	SC252	JO	Watershed	High
4a	Kansas River At Desoto	Aquatic Life	Total Phosphorus	SC254	LV, JO	Watershed	High
4a	Kansas River At Eudora	Aquatic Life	Total Phosphorus	SC255	JF, LV, DG	Watershed	High
4a	Kansas River At Kansas City, Kansas	Aquatic Life	Total Phosphorus	SC203	LV, WY, JO	Watershed	High
4a	Kansas River At Lecompton	Aquatic Life	Total Phosphorus	SC257	JF, SN, DG	Watershed	High
4a	Kill Creek At Desoto	Aquatic Life	Total Phosphorus	SC253	JO	Watershed	High
4a	Mill Creek Near Shawnee	Aquatic Life	Total Phosphorus	SC251	JO	Watershed	High
4a	Wakarusa River Near Eudora	Aquatic Life	Total Phosphorus	SC500	DG	Watershed	High
3	Mill Creek Near Shawnee	Aquatic Life	Diazinon	SC251	JO	Watershed	
3	Captain Creek Near Eudora	Recreation	E. coli	SC638	DG, JO	Watershed	
3	Crooked Creek Near Winchester	Recreation	E. coli	SC683	JF	Watershed	
	1						

10270205 Lower Big Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Big Blue River Near Oketo	Water Supply	Arsenic	SC233	MS	Watershed	2023
5	Big Blue River Near Oketo	Aquatic Life	Biology	SC233	MS	Watershed	2022
5	Black Vermillion River Near Frankfort	Aquatic Life	Biology	SC505	MS,NM	Watershed	2022
5	Horseshoe Creek	Aquatic Life	Biology	SB475	MS	Watershed	2022
5	North Fork Black Vermillion River Near Vliets	Aquatic Life	Biology	SC128	MS, NM	Watershed	2022
5	Spring Creek	Aquatic Life	Biology	SB476	MS	Watershed	2022
5	Big Blue River Near Blue Rapids	Aquatic Life	Copper	SC240	MS	Watershed	2023
5	Big Blue River Near Blue Rapids	Aquatic Life	рН	SC240	MS	Watershed	2022
5	Big Blue River Near Oketo	Aquatic Life	рН	SC233	MS	Watershed	2022
5	Fancy Creek Near Randolph	Water Supply	Sulfate	SC502	WS, CY, RL	Watershed	2023
5	Horseshoe Creek Near Marysville	Water Supply	Sulfate	SC717	MR, CS	Watershed	2023
5	Big Blue River Near Blue Rapids	Aquatic Life	Total Phosphorus	SC240	MS	Watershed	2019
5	Big Blue River Near Oketo	Aquatic Life	Total Phosphorus	SC233	MS	Watershed	2019
5	Black Vermillion River Near Frankfort	Aquatic Life	Total Phosphorus	SC505	MS,NM	Watershed	2019
5	Horseshoe Creek Near Marysville	Aquatic Life	Total Phosphorus	SC717	MR, CS	Watershed	2019
5	North Elm Creek Near Oketo	Aquatic Life	Total Phosphorus	SC731	MS, NM	Watershed	2019
5	Robidoux Creek near Frankfort	Aquatic Life	Total Phosphorus	SC754	MS	Watershed	2019
5	Big Blue River Near Blue Rapids	Aquatic Life	Total Suspended Solids	SC240	MS	Watershed	2023
5	Big Blue River Near Oketo	Aquatic Life	Total Suspended Solids	SC233	MS	Watershed	2023
5	Black Vermillion River Near Frankfort	Aquatic Life	Total Suspended Solids	SC505	MS,NM	Watershed	2023
4a	Tuttle Creek Lake	Aquatic Life	Alachlor	LM021001	MS, RL, PT	Lake	High
4a	Centralia Lake	Recreation	Aquatic Plants	LM073701	NM	Lake	Medium
4a	Big Blue River Near Blue Rapids	Aquatic Life	Atrazine	SC240	MS	Watershed	High
4a	Big Blue River Near Oketo	Aquatic Life	Atrazine	SC233	MS	Watershed	High
4a	Black Vermillion River Near Frankfort	Aquatic Life	Atrazine	SC505	MS,NM	Watershed	High
4a	Fancy Creek Near Randolph	Aquatic Life	Atrazine	SC502	WS, CY, RL	Watershed	High
4a	Horseshoe Creek Near Marysville	Aquatic Life	Atrazine	SC717	MR, CS	Watershed	High
4a	North Elm Creek Near Oketo	Aquatic Life	Atrazine	SC731	MS, NM	Watershed	High

10270	205	
Lower	Big	Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Tuttle Creek Lake	Aquatic Life	Atrazine	LM021001	MS, RL, PT	Lake	High
4a	Big Blue River Near Blue Rapids	Recreation	E. coli	SC240	MS	Watershed	High
4a	Big Blue River Near Oketo	Recreation	E. coli	SC233	MS	Watershed	High
4a	Black Vermillion River Near Frankfort	Recreation	E. coli	SC505	MS,NM	Watershed	High
4a	Fancy Creek Near Randolph	Recreation	E. coli	SC502	WS, CY, RL	Watershed	Medium
4a	Horseshoe Creek Near Marysville	Recreation	E. coli	SC717	MR, CS	Watershed	High
4a	Centralia Lake	Aquatic Life	Eutrophication	LM073701	NM	Lake	Medium
4a	Tuttle Creek Lake	Aquatic Life	Eutrophication	LM021001	MS, RL, PT	Lake	High
4a	Centralia Lake	Aquatic Life	рН	LM073701	NM	Lake	Medium
4a	Tuttle Creek Lake	Water Supply	Siltation	LM021001	MS, RL, PT	Lake	High
3	Centralia Lake	Water Supply	Arsenic	LM073701	NM	Lake	
3	Rocky Ford W.A.	Food Procurement	Mercury	LM020601	RL	Lake	

10270207

Lower Little Blue

5 Rose Creek Near Narka Water Supply Arsenic SC712 RP Watershed 2023 5 Little Blue River Near Aquatic Life Biology SC232 RP, WS Watershed 2022 5 Little Blue River Near Aquatic Life Copper SC232 RP, WS Watershed 2023 5 Washington Co. SFL Aquatic Life Eutrophication LM010901 WS Lake 2023 5 Washington W.A. Aquatic Life Lead LM010941 WS Lake 2023 5 Little Blue River Near Aquatic Life PH SC232 RP, WS Watershed 2022 5 Little Blue River Near Aquatic Life PH SC232 RP, WS Watershed 2022 6 Little Blue River Near Aquatic Life Total Phosphorus SC232 RP, WS Watershed 2019 6 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 6 Little Blue River Near Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 6 Rose Creek Near Hanover Aquatic Life Total Phosphorus SC712 RP Watershed 2019 6 Little Blue River Near Aquatic Life Total Suspended SC122 RP, WS Watershed 2019 6 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC501dS RP, WS Watershed 2023 7 Little Blue River Near Aquatic Life Total Suspended SC501dS RP, WS Watershed 2023 8 Mill Creek Near Hanover Aquatic Life Total Suspended SC501dS RP, WS Watershed Low Watershed Solids	Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
Hollenberg 5 Little Blue River Near Aquatic Life Copper SC232 RP, WS Watershed 2023 5 Washington Co. SFL Aquatic Life Eutrophication LM010901 WS Lake 2023 5 Washington W.A. Aquatic Life Lead LM010941 WS Lake 2023 5 Little Blue River Near Aquatic Life PH SC232 RP, WS Watershed 2022 6 Little Blue River Near Aquatic Life DH SC232 RP, WS Watershed 2022 7 Little Blue River Near Aquatic Life Total Phosphorus SC232 RP, WS Watershed 2019 8 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 9 Little Blue River Near Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Hanover Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Rose Creek Near Narka Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 8 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 8 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023	5	Rose Creek Near Narka	Water Supply	Arsenic	SC712	RP	Watershed	2023
Hollenberg 5 Washington Co. SFL Aquatic Life Eutrophication LM010901 WS Lake 2023 5 Washington W.A. Aquatic Life Lead LM010941 WS Lake 2023 5 Little Blue River Near Aquatic Life PH SC232 RP, WS Watershed 2022 6 Little Blue River Near Hollenberg Aquatic Life Total Phosphorus SC232 RP, WS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 5 Mill Creek Near Hanover Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC132 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC30 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023	5		Aquatic Life	Biology	SC232	RP, WS	Watershed	2022
5 Washington W.A. Aquatic Life Lead LM010941 WS Lake 2023 5 Little Blue River Near Aquatic Life pH SC232 RP, WS Watershed 2022 5 Little Blue River Near Aquatic Life Total Phosphorus SC232 RP, WS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 5 Mill Creek Near Hanover Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC30 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023	5		Aquatic Life	Copper	SC232	RP, WS	Watershed	2023
5 Little Blue River Near Hollenberg Aquatic Life pH SC232 RP, WS Watershed 2022 5 Little Blue River Near Aquatic Life Total Phosphorus SC232 RP, WS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Hanover Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC0lids 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC50lids 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 4 Washington Co. SFL Recreation Aquatic Plants LM010901 WS Lake Low	5	Washington Co. SFL	Aquatic Life	Eutrophication	LM010901	WS	Lake	2023
Hollenberg 5 Little Blue River Near Aquatic Life Total Phosphorus SC232 RP, WS Watershed 2019 5 Little Blue River Near Aquatic Life Total Phosphorus SC741 WS, MS Watershed 2019 5 Mill Creek Near Hanover Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC32 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 4 Washington Co. SFL Recreation Aquatic Plants LM010901 WS Lake Low	5	Washington W.A.	Aquatic Life	Lead	LM010941	WS	Lake	2023
Hollenberg Little Blue River Near Waterville Mill Creek Near Hanover Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2019 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 Little Blue River Near Aquatic Life Total Suspended SC1232 RP, WS Watershed 2023 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 Mill Creek Near Hanover Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Watershed 2023 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Matershed 2023 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Lake Low	5		Aquatic Life	рН	SC232	RP, WS	Watershed	2022
Waterville 5 Mill Creek Near Hanover Aquatic Life Total Phosphorus SC507 RP, WS Watershed 2023 5 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC30lids 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 6 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 7 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 8 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 8 Little Blue River Near Aquatic Life Total Suspended SC507 RP, WS Watershed 2023	5		Aquatic Life	Total Phosphorus	SC232	RP, WS	Watershed	2019
5 Rose Creek Near Narka Aquatic Life Total Phosphorus SC712 RP Watershed 2019 5 Little Blue River Near Aquatic Life Total Suspended Solids 5 Little Blue River Near Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 6 Waterville Total Suspended SC507 RP, WS Watershed 2023 6 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 7 Solids SC507 RP, WS Watershed 2023 8 Watershed 2023	5		Aquatic Life	Total Phosphorus	SC741	WS, MS	Watershed	2019
5 Little Blue River Near Hollenberg Aquatic Life Total Suspended SC232 RP, WS Watershed 2023 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 Waterville Solids SC507 RP, WS Watershed 2023 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Solids Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 Watershed Low	5	Mill Creek Near Hanover	Aquatic Life	Total Phosphorus	SC507	RP, WS	Watershed	2023
Hollenberg Solids 5 Little Blue River Near Aquatic Life Total Suspended SC741 WS, MS Watershed 2023 Waterville 5 Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Solids 4a Washington Co. SFL Recreation Aquatic Plants LM010901 WS Lake Low	5	Rose Creek Near Narka	Aquatic Life	Total Phosphorus	SC712	RP	Watershed	2019
Waterville Solids Mill Creek Near Hanover Aquatic Life Total Suspended SC507 RP, WS Watershed 2023 Solids 4a Washington Co. SFL Recreation Aquatic Plants LM010901 WS Lake Low	5		Aquatic Life		SC232	RP, WS	Watershed	2023
Solids 4a Washington Co. SFL Recreation Aquatic Plants LM010901 WS Lake Low	5		Aquatic Life	·	SC741	WS, MS	Watershed	2023
	5	Mill Creek Near Hanover	Aquatic Life	'	SC507	RP, WS	Watershed	2023
4a Little Blue River Near Aquatic Life Atrazine SC232 RP, WS Watershed High	4a	Washington Co. SFL	Recreation	Aquatic Plants	LM010901	WS	Lake	Low
Hollenberg	4a	Little Blue River Near Hollenberg	Aquatic Life	Atrazine	SC232	RP, WS	Watershed	High

10270207 Lower Little Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Little Blue River Near Waterville	Aquatic Life	Atrazine	SC741	WS, MS	Watershed	High
4a	Mill Creek Near Hanover	Aquatic Life	Atrazine	SC507	RP, WS	Watershed	High
4a	Rose Creek Near Narka	Aquatic Life	Atrazine	SC712	RP	Watershed	High
4a	Washington Co. SFL	Aquatic Life	Dissolved Oxygen	LM010901	WS	Lake	Low
4a	Little Blue River Near Hollenberg	Recreation	E. coli	SC232	RP, WS	Watershed	High
4a	Little Blue River Near Waterville	Recreation	E. coli	SC741	WS, MS	Watershed	High
4a	Mill Creek Near Hanover	Recreation	E. coli	SC507	RP, WS	Watershed	High
4a	Lake Idlewild	Aquatic Life	Eutrophication	LM061201	MS	Lake	Low
4a	Washington W.A.	Aquatic Life	Eutrophication	LM010941	WS	Lake	Low
4a	Washington W.A.	Water Supply	Siltation	LM010941	WS	Lake	Low
3	Washington W.A.	Aquatic Life	Dissolved Oxygen	LM010941	WS	Lake	
3	Rose Creek Near Narka	Recreation	E. coli	SC712	RP	Watershed	

Lower Arkansas River Basin

11030009 Rattlesnake

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Quivira Big Salt Marsh	Water Supply	Chloride	LM050601	SF	Lake	Low
4a	Quivira Little Salt Marsh	Water Supply	Chloride	LM050201	SF	Lake	Low
4a	Rattlesnake Creek Near Hudson	Water Supply	Chloride	SC660	SF, ED, KW	Watershed	
4a	Quivira Big Salt Marsh	Aquatic Life	Eutrophication	LM050601	SF	Lake	High
4a	Quivira Little Salt Marsh	Aquatic Life	Eutrophication	LM050201	SF	Lake	High
4a	Quivira Big Salt Marsh	Aquatic Life	рН	LM050601	SF	Lake	High
4a	Quivira Little Salt Marsh	Aquatic Life	рН	LM050201	SF	Lake	High
4a	Quivira Big Salt Marsh	Water Supply	Siltation	LM050601	SF	Lake	High
4a	Quivira Little Salt Marsh	Water Supply	Siltation	LM050201	SF	Lake	High
3	Kiowa Co. SFL	Aquatic Life	Eutrophication	LM042801	KW	Lake	

11030010 Gar-Peace

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Creek Near Hutchinson	Recreation	E. coli	SC659	RN	Watershed	2023
5	Arkansas River Near Hutchinson	Aquatic Life	Selenium	SC523	RC, RN	Watershed	2023
5	Arkansas River Near Yoder	Aquatic Life	Selenium	SC524	RN	Watershed	2023

11030010
Gar-Peace

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arkansas River Near Yoder	Aquatic Life	Total Phosphorus	SC524	RN	Watershed	2017
4a	Arkansas River Near Hutchinson	Aquatic Life	Biology	SC523	RC, RN	Watershed	Medium
4a	Arkansas River Near Maize	Aquatic Life	Biology	SC536	RN, SG	Watershed	Medium
4a	Arkansas River Near Yoder	Aquatic Life	Biology	SC524	RN	Watershed	Medium
4a	Arkansas River Near Hutchinson	Water Supply	Chloride	SC523	RC, RN	Watershed	Medium
4a	Arkansas River Near Maize	Water Supply	Chloride	SC536	RN, SG	Watershed	Medium
4a	Arkansas River Near Yoder	Water Supply	Chloride	SC524	RN	Watershed	Medium
4a	Peace Creek Near Sterling	Water Supply	Chloride	SC658	SF, RN, PR	Watershed	Low
4a	Salt Creek Near Hutchinson	Water Supply	Chloride	SC659	RN	Watershed	Medium
4a	Peace Creek Near Sterling	Recreation	E. coli	SC658	SF, RN, PR	Watershed	Medium
4a	Carey Park Lake	Aquatic Life	Eutrophication	LM063001	RN	Lake	Low
4a	Peace Creek Near Sterling	Aquatic Life	рН	SC658	SF, RN, PR	Watershed	Medium
4a	Salt Creek Near Hutchinson	Aquatic Life	рН	SC659	RN	Watershed	Medium

11030011 Cow Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cow Creek Near Lyons	Water Supply	Arsenic	SC657	EW, BT, RC	Watershed	2023
5	Cow Creek Near Willowbrook	Water Supply	Arsenic	SC522	RC, RN	Watershed	2023
5	Barton Lake	Aquatic Life	Eutrophication	LM072701	ВТ	Lake	2023
5	Sterling City Lake	Aquatic Life	Eutrophication	LM064801	RC	Lake	2023
5	Cow Creek Near Hutchinson	Food Procurement	PCB	SC287	RN	Watershed	2023
5	Cow Creek Near Hutchinson	Aquatic Life	Selenium	SC287	RN	Watershed	2023
5	Cow Creek Near Willowbrook	Aquatic Life	Selenium	SC522	RC, RN	Watershed	2023
5	Cheyenne Bottoms	Water Supply	Siltation	LM050401	ВТ	Lake	2023
5	Cow Creek Near Lyons	Aquatic Life	Total Phosphorus	SC657	EW, BT, RC	Watershed	2023
5	Cow Creek Near Willowbrook	Aquatic Life	Total Phosphorus	SC522	RC, RN	Watershed	2023
5	Little Cow Creek Near Lyons	Aquatic Life	Total Phosphorus	SC656	EW, RC	Watershed	2023
5	Cow Creek Near Lyons	Aquatic Life	Total Suspended Solids	SC657	EW, BT, RC	Watershed	2023
5	Cow Creek Near Willowbrook	Aquatic Life	Total Suspended Solids	SC522	RC, RN	Watershed	2023
4a	Cow Creek Near Hutchinson	Aquatic Life	Biology	SC287	RN	Watershed	Medium
4a	Cow Creek Near Hutchinson	Water Supply	Chloride	SC287	RN	Watershed	Medium
4a	Cow Creek Near Lyons	Water Supply	Chloride	SC657	EW, BT, RC	Watershed	Medium

1	1	0	3	0	0	1	1	
_	^	14	,	C	r	۵	۵	L

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Cow Creek Near Willowbrook	Water Supply	Chloride	SC522	RC, RN	Watershed	Medium
4a	Little Cow Creek Near Lyons	Water Supply	Chloride	SC656	EW, RC	Watershed	Medium
4a	Cheyenne Bottoms	Aquatic Life	Dissolved Oxygen	LM050401	ВТ	Lake	High
4a	Little Cow Creek Near Lyons	Aquatic Life	Dissolved Oxygen	SC656	EW, RC	Watershed	High
4a	Cow Creek Near Hutchinson	Recreation	E. coli	SC287	RN	Watershed	High
4a	Cow Creek Near Willowbrook	Recreation	E. coli	SC522	RC, RN	Watershed	High
4a	Little Cow Creek Near Lyons	Recreation	E. coli	SC656	EW, RC	Watershed	High
4a	Cheyenne Bottoms	Aquatic Life	Eutrophication	LM050401	ВТ	Lake	High
4a	Cow Creek Near Lyons	Recreation	Fecal Coli	SC657	EW, BT, RC	Watershed	High
4a	Little Cow Creek Near Lyons	Water Supply	Nitrate	SC656	EW, RC	Watershed	High
3	Cow Creek Near Willowbrook	Aquatic Life	Atrazine	SC522	RC, RN	Watershed	
3	Little Cow Creek Near Lyons	Aquatic Life	Diazinon	SC656	EW, RC	Watershed	

11030012 Little Arkansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Black Kettle Creek Near Halstead	Water Supply	Arsenic	SC705	MP, HV	Watershed	2023
5	Emma Creek Near Sedgwick	Water Supply	Arsenic	SC534	MP, MN, HV	Watershed	2023
5	Little Arkansas River At Alta Mills	Water Supply	Arsenic	SC246	MP, RC, RN	Watershed	2023
5	Turkey Creek Near Alta Mills	Water Supply	Arsenic	SC533	MP, RC, RN	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Atrazine	SC705	MP, HV	Watershed	2023
5	Kisiwa Creek Near Halstead	Aquatic Life	Atrazine	SC703	HV, RN	Watershed	2023
5	Little Arkansas River At Alta Mills	Aquatic Life	Atrazine	SC246	MP, RC, RN	Watershed	2023
5	Little Arkansas River At Valley Center	Aquatic Life	Atrazine	SC282	HV, SG	Watershed	2023
5	Little Arkansas River At Wichita	Aquatic Life	Atrazine	SC728	SG, SU	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Copper	SC705	MP, HV	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Dissolved Oxygen	SC705	MP, HV	Watershed	2022
5	Emma Creek Near Sedgwick	Aquatic Life	Dissolved Oxygen	SC534	MP, MN, HV	Watershed	2022
5	Kisiwa Creek Near Halstead	Aquatic Life	Dissolved Oxygen	SC703	HV, RN	Watershed	2022
5	Buhler City Lake	Aquatic Life	Eutrophication	LM050701	RN	Lake	2023
5	McPherson Wetlands	Aquatic Life	Eutrophication	LM014701	MP	Wetland	2023

11030012 Little Arkansas

Little	Aikaiisas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Little Arkansas River At Wichita	Food Procurement	Mercury	SC728	SG, SU	Watershed	2023
5	Little Arkansas River At Wichita	Food Procurement	РСВ	SC728	SG, SU	Watershed	2023
5	Little Arkansas River At Alta Mills	Aquatic Life	Selenium	SC246	MP, RC, RN	Watershed	2023
5	Turkey Creek Near Alta Mills	Aquatic Life	Selenium	SC533	MP, RC, RN	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Total Phosphorus	SC705	MP, HV	Watershed	2020
5	Emma Creek Near Sedgwick	Aquatic Life	Total Phosphorus	SC534	MP, MN, HV	Watershed	2020
5	Kisiwa Creek Near Halstead	Aquatic Life	Total Phosphorus	SC703	HV, RN	Watershed	2020
5	Little Arkansas River At Alta Mills	Aquatic Life	Total Phosphorus	SC246	MP, RC, RN	Watershed	2020
5	Little Arkansas River At Valley Center	Aquatic Life	Total Phosphorus	SC282	HV, SG	Watershed	2020
5	Little Arkansas River At Wichita	Aquatic Life	Total Phosphorus	SC728	SG, SU	Watershed	2017
4b	Emma Creek Near Sedgwick	Aquatic Life	Atrazine	SC534	MP, MN, HV	Watershed	Low
4b	Sand Creek Near Sedgwick	Aquatic Life	Atrazine	SC535	MN, HV	Watershed	Low
4b	Turkey Creek Near Alta Mills	Aquatic Life	Atrazine	SC533	MP, RC, RN	Watershed	Low
4a	Black Kettle Creek Near Halstead	Aquatic Life	Biology	SC705	MP, HV	Watershed	High
4a	Emma Creek Near Sedgwick	Aquatic Life	Biology	SC534	MP, MN, HV	Watershed	High
4a	Kisiwa Creek Near Halstead	Aquatic Life	Biology	SC703	HV, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Aquatic Life	Biology	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Aquatic Life	Biology	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Aquatic Life	Biology	SC728	SG, SU	Watershed	High
4a	Sand Creek Near Sedgwick	Aquatic Life	Biology	SC535	MN, HV	Watershed	High
4a	Turkey Creek Near Alta Mills	Aquatic Life	Biology	SC533	MP, RC, RN	Watershed	High
4a	Black Kettle Creek Near Halstead	Aquatic Life	Biology/Sediment	SC705	MP, HV	Watershed	High
4a	Emma Creek Near Sedgwick	Aquatic Life	Biology/Sediment	SC534	MP, MN, HV	Watershed	High
4a	Kisiwa Creek Near Halstead	Aquatic Life	Biology/Sediment	SC703	HV, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Aquatic Life	Biology/Sediment	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Aquatic Life	Biology/Sediment	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Aquatic Life	Biology/Sediment	SC728	SG, SU	Watershed	High
4a	Sand Creek Near Sedgwick	Aquatic Life	Biology/Sediment	SC535	MN, HV	Watershed	High

11030012 Little Arkansas

Little	Arkansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Turkey Creek Near Alta Mills	Aquatic Life	Biology/Sediment	SC533	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Water Supply	Chloride	SC246	MP, RC, RN	Watershed	Medium
4a	Turkey Creek Near Alta Mills	Water Supply	Chloride	SC533	MP, RC, RN	Watershed	Medium
4a	Mingenback Lake	Aquatic Life	Dissolved Oxygen	LM064701	MP	Lake	Medium
4a	Sand Creek Near Sedgwick	Aquatic Life	Dissolved Oxygen	SC535	MN, HV	Watershed	Medium
4a	Turkey Creek Near Alta Mills	Aquatic Life	Dissolved Oxygen	SC533	MP, RC, RN	Watershed	High
4a	Emma Creek Near Sedgwick	Recreation	E. coli	SC534	MP, MN, HV	Watershed	High
4a	Little Arkansas River At Alta Mills	Recreation	E. coli	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Recreation	E. coli	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Recreation	E. coli	SC728	SG, SU	Watershed	High
4a	Sand Creek Near Sedgwick	Recreation	E. coli	SC535	MN, HV	Watershed	High
4a	Turkey Creek Near Alta Mills	Recreation	E. coli	SC533	MP, RC, RN	Watershed	High
4a	Dillon Park Lakes	Aquatic Life	Eutrophication	LM063101	RN	Lake	Medium
4a	Harvey Co. Camp Hawk Lake	Aquatic Life	Eutrophication	LM063401	HV	Lake	Low
4a	Harvey Co. West Park Lake	Aquatic Life	Eutrophication	LM049001	HV	Lake	Low
4a	Mingenback Lake	Aquatic Life	Eutrophication	LM064701	MP	Lake	Medium
4a	Newton City Park Lake	Aquatic Life	Eutrophication	LM064201	HV	Lake	High
4a	Sand Creek Near Sedgwick	Water Supply	Nitrate	SC535	MN, HV	Watershed	High
4a	Dillon Park Lakes	Aquatic Life	рН	LM063101	RN	Lake	Medium
4a	Harvey Co. Camp Hawk Lake	Water Supply	Siltation	LM063401	HV	Lake	Low
4a	Sand Creek Near Sedgwick	Aquatic Life	Total Phosphorus	SC535	MN, HV	Watershed	High
4a	Turkey Creek Near Alta Mills	Aquatic Life	Total Phosphorus	SC533	MP, RC, RN	Watershed	High
4a	Black Kettle Creek Near Halstead	Aquatic Life	Total Suspended Solids	SC705	MP, HV	Watershed	High
4a	Kisiwa Creek Near Halstead	Aquatic Life	Total Suspended Solids	SC703	HV, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Aquatic Life	Total Suspended Solids	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Aquatic Life	Total Suspended Solids	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Aquatic Life	Total Suspended Solids	SC728	SG, SU	Watershed	High
4a	Turkey Creek Near Alta Mills	Aquatic Life	Total Suspended Solids	SC533	MP, RC, RN	Watershed	High

1	10	30	0	12		
L	itt	le	Αı	rka	ns	as

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Inman Lake	Aquatic Life	Copper	LM050301	MP	Lake	
3	Harvey Co. West Park Lake	Aquatic Life	Dissolved Oxygen	LM049001	HV	Lake	
3	Inman Lake	Aquatic Life	Lead	LM050301	MP	Lake	
3	Inman Lake	Water Supply	Siltation	LM050301	MP	Lake	
3	Mingenback Lake	Water Supply	Siltation	LM064701	MP	Lake	

11030013

Middle	Arkansas-Slate

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Slate Creek Near Wellington	Water Supply	Arsenic	SC528	SU	Watershed	2023
5	Arkansas River Near Arkansas City	Aquatic Life	Atrazine	SC218	SU, CL	Watershed	2023
5	Cowskin Creek At Wichita	Aquatic Life	Atrazine	SC730	SG, SU	Watershed	2023
5	Slate Creek Near Wellington	Aquatic Life	Atrazine	SC528	SU	Watershed	2023
5	Slate Creek Near Wellington	Aquatic Life	Biology	SC528	SU	Watershed	2023
5	Cowskin Creek Near Belle Plaine	Recreation	E. coli	SC702	SG, SU	Watershed	2023
5	Chisholm Creek Park Lake	Aquatic Life	Eutrophication	LM064601	SG	Lake	2023
5	Colwich City Lake	Aquatic Life	Eutrophication	LM017501	SG	Lake	2023
5	Eagle Lake (Belaire Lake)	Aquatic Life	Eutrophication	LM022101	SG	Lake	2023
5	Emery Park Lake	Aquatic Life	Eutrophication	LM063201	SG	Lake	2023
5	Hargis Lake	Aquatic Life	Eutrophication	LM039901	SU	Lake	2023
5	Harrison Park Lake	Aquatic Life	Eutrophication	LM022301	SG	Lake	2023
5	Moss Lake	Aquatic Life	Eutrophication	LM064101	SG	Lake	2023
5	Riggs Park Lake	Aquatic Life	Eutrophication	LM022401	SG	Lake	2023
5	Arkansas River At Derby	Water Supply	Nitrate	SC281	SG	Watershed	2017
5	Arkansas River At Derby	Food Procurement	PCB	SC281	SG	Watershed	2023
5	Arkansas River At Oxford	Aquatic Life	рН	SC527	SG, SU, CL	Watershed	2022
5	Arkansas River Near Arkansas City	Aquatic Life	рН	SC218	SU, CL	Watershed	2022
5	Arkansas River At Derby	Aquatic Life	Total Phosphorus	SC281	SG	Watershed	2017
5	Arkansas River At Oxford	Aquatic Life	Total Phosphorus	SC527	SG, SU, CL	Watershed	2017
5	Arkansas River At Wichita	Aquatic Life	Total Phosphorus	SC729	SG, SU	Watershed	2017
5	Arkansas River Near Arkansas City	Aquatic Life	Total Phosphorus	SC218	SU, CL	Watershed	2017
5	Cowskin Creek At Wichita	Aquatic Life	Total Phosphorus	SC730	SG, SU	Watershed	2020
5	Cowskin Creek In Wichita- Valley Center Floodway	Aquatic Life	Total Phosphorus	SC288	SG	Watershed	2020

11030013 Middle Arkansas-Slate

iviida	ie Aikalisas-Siate						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cowskin Creek Near Belle Plaine	Aquatic Life	Total Phosphorus	SC702	SG, SU	Watershed	2020
5	Slate Creek Near Wellington	Aquatic Life	Total Phosphorus	SC528	SU	Watershed	2020
5	Arkansas River At Oxford	Aquatic Life	Total Suspended Solids	SC527	SG, SU, CL	Watershed	2023
5	Arkansas River Near Arkansas City	Aquatic Life	Total Suspended Solids	SC218	SU, CL	Watershed	2023
5	Cowskin Creek Near Belle Plaine	Aquatic Life	Total Suspended Solids	SC702	SG, SU	Watershed	2023
5	Slate Creek Near Wellington	Aquatic Life	Total Suspended Solids	SC528	SU	Watershed	2023
4a	Arkansas River At Derby	Aquatic Life	Biology	SC281	SG	Watershed	Medium
4a	Arkansas River At Wichita	Aquatic Life	Biology	SC729	SG, SU	Watershed	Low
4a	Arkansas River Near Arkansas City	Aquatic Life	Biology	SC218	SU, CL	Watershed	Medium
4a	Cowskin Creek At Wichita	Aquatic Life	Biology	SC730	SG, SU	Watershed	High
4a	Cowskin Creek In Wichita- Valley Center Floodway	Aquatic Life	Biology	SC288	SG	Watershed	High
4a	Arkansas River At Derby	Water Supply	Chloride	SC281	SG	Watershed	Medium
4a	Arkansas River At Oxford	Water Supply	Chloride	SC527	SG, SU, CL	Watershed	Medium
4a	Arkansas River At Wichita	Water Supply	Chloride	SC729	SG, SU	Watershed	Medium
4a	Arkansas River Near Arkansas City	Water Supply	Chloride	SC218	SU, CL	Watershed	Medium
4a	Slate Creek W.A.	Water Supply	Chloride	LM014201	SU	Lake	Medium
4a	Arkansas River At Derby	Recreation	E. coli	SC281	SG	Watershed	High
4a	Arkansas River At Oxford	Recreation	E. coli	SC527	SG, SU, CL	Watershed	High
4a	Arkansas River At Wichita	Recreation	E. coli	SC729	SG, SU	Watershed	High
4a	Cowskin Creek At Wichita	Recreation	E. coli	SC730	SG, SU	Watershed	High
4a	Cowskin Creek In Wichita- Valley Center Floodway	Recreation	E. coli	SC288	SG	Watershed	High
4a	Slate Creek Near Wellington	Recreation	E. coli	SC528	SU	Watershed	High
4a	Cadillac Lake (Pracht Wetland)	Aquatic Life	Eutrophication	LM054101	SG	Lake	Low
4a	Horseshoe Lake	Aquatic Life	Eutrophication	LM063501	SG	Lake	Low
4a	Kid's Lake	Aquatic Life	Eutrophication	LM063601	SG	Lake	Low
4a	Slate Creek W.A.	Aquatic Life	Eutrophication	LM014201	SU	Lake	Medium
4a	Watson Park Lake	Aquatic Life	Eutrophication	LM064401	SG	Lake	Low
4a	Slate Creek W.A.	Aquatic Life	рН	LM014201	SU	Lake	Medium
4a	Slate Creek W.A.	Water Supply	Siltation	LM014201	SU	Lake	Medium
4a	Slate Creek Near Wellington	Water Supply	Sulfate	SC528	SU	Watershed	Low
4a	Slate Creek W.A.	Water Supply	Sulfate	LM014201	SU	Lake	Low

11030013 Middle Arkansas-Slate										
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority			
3	Arkansas River Near Arkansas City	Recreation	E. coli	SC218	SU, CL	Watershed				
3	Vic's Lake	Aquatic Life	Eutrophication	LM064301	SG	Lake				
3	Windmill Lake	Aquatic Life	Eutrophication	LM064501	SG	Lake				
11030014 North Fork Ninnescah										
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority			
4a	Cheney Lake	Aquatic Life	Eutrophication	LM017001	RN	Lake	High			
4a	North Fork Ninnescah River Near Castleton	Aquatic Life	рН	SC525	SF, RN, PR	Watershed	Low			
4a	Cheney Lake	Water Supply	Siltation	LM017001	RN	Lake	High			
3	Cheney Lake	Aquatic Life	рН	LM017001	RN	Lake				
11030015 South Fork Ninnescah										
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority			
5	Texas Lake W.A.	Aquatic Life	Dissolved Oxygen	LM053001	PR	Lake	2023			
5	Kingman Co. SFL	Aquatic Life	Eutrophication	LM010401	KM	Lake	2023			
5	Pratt Co. Lake	Aquatic Life	рН	LM064001	PR	Lake	2023			
5	South Fork Ninnescah River Near Murdock	Aquatic Life	Temperature	SC036	PR, KM	Watershed	2023			
4a	Kingman Co. SFL	Recreation	Aquatic Plants	LM010401	KM	Lake	Medium			
4a	South Fork Ninnescah River Near Murdock	Water Supply	Chloride	SC036	PR, KM	Watershed	Medium			
4a	Kingman Co. SFL	Aquatic Life	Dissolved Oxygen	LM010401	KM	Lake	Medium			
4a	Pratt Co. Lake	Aquatic Life	Eutrophication	LM064001	PR	Lake	High			
4a	Kingman Co. SFL	Aquatic Life	рН	LM010401	KM	Lake	Medium			
3	Lemon Park Lake	Aquatic Life	Eutrophication	LM063901	PR	Lake				
11030 Ninne										
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority			
4a	Ninnescah River Near Belle Plaine	Water Supply	Chloride	SC280	SG, KM, SU	Watershed	Medium			
4a	Lake Afton	Aquatic Life	Eutrophication	LM049201	SG	Lake	High			
3	Ninnescah River Near Belle Plaine	Aquatic Life	Biology/Sediment	SC280	SG, KM, SU	Watershed				
3	Ninnescah River Near Belle	Recreation	E. coli	SC280	SG, KM, SU	Watershed				

Plaine

1106 Kaw							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cowley Co. SFL	Aquatic Life	Eutrophication	LM013401	CL	Lake	2023
3	Grouse Creek Near Cambridge	Aquatic Life	Biology	SC761	CL	Watershed	
3	Grouse Creek Near Silverdale	Aquatic Life	Biology	SC531	CL	Watershed	
3	Beaver Creek Near Maple City	Recreation	E. coli	SC664	CL	Watershed	
3	Grouse Creek Near Silverdale	Recreation	E. coli	SC531	CL	Watershed	
1106 Uppe	0002 r Salt Fork Arkansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Fork Arkansas River Near Hardtner	Aquatic Life	Temperature	SC591	BA, CM	Watershed	2023
4a	Salt Fork Arkansas River Near Hardtner	Water Supply	Chloride	SC591	BA, CM	Watershed	Low
4a	Mule Creek Near Aetna	Recreation	Fecal Coli	SC622	KW, BA, CM	Watershed	Medium
1106 Medi	0003 cine Lodge						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Barber Co. SFL	Water Supply	Sulfate	LM013101	BA	Lake	2023
4a	Barber Co. SFL	Aquatic Life	Dissolved Oxygen	LM013101	ВА	Lake	Low
4a	Medicine Lodge River Near Belvidere	Recreation	Fecal Coli	SC588	KW	Watershed	High
4a	Medicine Lodge River Near Medicine Lodge	Recreation	Fecal Coli	SC589	PR, KW, BA	Watershed	High
4a	Medicine Lodge River Near Medicine Lodge	Water Supply	Sulfate	SC589	PR, KW, BA	Watershed	Low
3	Elm Creek Near Medicine Lodge	Recreation	E. coli	SC590	PR, BA	Watershed	
1106 Lowe	0004 r Salt Fork Arkansas						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Sandy Creek Near Ruella	Aquatic Life	Temperature	SC619	HP	Watershed	2023
1106 Chika							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bluff Creek Near Caldwell	Water Supply	Arsenic	SC530	НР	Watershed	2023
5	Fall Creek Near Caldwell	Water Supply	Arsenic	SC662	SU	Watershed	2023
5	Isabel W.A.	Aquatic Life	Copper	LM014301	PR	Lake	2023
5	Isabel W.A.	Aquatic Life	Dissolved Oxygen	LM014301	PR	Lake	2023

11060005 Chikaskia

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bluff Creek Near Bluff City	Aquatic Life	Total Phosphorus	SC618	НР	Watershed	2023
5	Shoofly Creek Near Hunnewell	Aquatic Life	Total Phosphorus	SC663	SU	Watershed	2023
4a	Anthony City Lake	Aquatic Life	Dissolved Oxygen	LM048801	HP	Lake	High
4a	Bluff Creek Near Bluff City	Recreation	E. coli	SC618	HP	Watershed	High
4a	Bluff Creek Near Caldwell	Recreation	E. coli	SC530	HP	Watershed	High
4a	Chikaskia River Near Corbin	Recreation	E. coli	SC529	SU	Watershed	High
4a	Anthony City Lake	Aquatic Life	Eutrophication	LM048801	HP	Lake	High
4a	Isabel W.A.	Aquatic Life	Eutrophication	LM014301	PR	Lake	Low
4a	Fall Creek Near Caldwell	Recreation	Fecal Coli	SC662	SU	Watershed	High
4a	Anthony City Lake	Aquatic Life	рН	LM048801	HP	Lake	High
4a	Isabel W.A.	Aquatic Life	рН	LM014301	PR	Lake	Low
4a	Bluff Creek Near Bluff City	Aquatic Life	Selenium	SC618	HP	Watershed	Medium
4a	Wellington Lake	Aquatic Life	Selenium	LM042201	SU	Lake	Low
4a	Anthony City Lake	Water Supply	Siltation	LM048801	НР	Lake	High
4a	Wellington Lake	Water Supply	Siltation	LM042201	SU	Lake	Medium
3	Shoofly Creek Near Hunnewell	Recreation	E. coli	SC663	SU	Watershed	

Marais des Cygnes River Basin

10290101

Upper Marais Des Cygnes

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	110 Mile Creek Near Scranton	Aquatic Life	Atrazine	SC633	OS, FR	Watershed	2023
5	Dragoon Creek Near Burlingame	Aquatic Life	Atrazine	SC577	WB, OS	Watershed	2023
5	Switzler Creek Near Burlingame	Aquatic Life	Atrazine	SC687	OS	Watershed	2023
5	Pottawatomie Creek Near Osawatomie	Aquatic Life	Biology	SC556	FR, AN	Watershed	2022
5	Appanoose Creek Near Richter	Aquatic Life	Dissolved Oxygen	SC692	DG, OS, FR	Watershed	2022
5	Richmond City Lake	Aquatic Life	Dissolved Oxygen	LM046801	FR	Lake	2022
5	Salt Creek	Recreation	E. coli	NPDES24821	OS	Facility	2023
5	Salt Creek Near Lyndon	Recreation	E. coli	SC578	OS, FR	Watershed	2023
5	Garnett North Lake	Aquatic Life	Eutrophication	LM040601	AN	Lake	2022
5	Osawatomie City Lake	Aquatic Life	Eutrophication	LM066201	MI	Lake	2023
5	Richmond City Lake	Aquatic Life	Eutrophication	LM046801	FR	Lake	2022

10290	101		
Upper	Marais	Des	Cygnes

Cat. Stream/Lake Impaired Use Impairment Station Counties Body Type Priority 5 Appanoose Creek Near Richter Aquatic Life Lead SC692 DG, OS, FR Watershed 2023 5 Westphalia Lake Water Supply Siltation LM066901 AN Lake Low 4a Spring Creek Park Lake Recreation Aquatic Life SC578 OS, FR Watershed Low 4a Salt Creek Near Lyndon Aquatic Life Dissolved Oxygen SC633 OS, FR Watershed High 4a Ottawa Creek Near Ottawa Aquatic Life Dissolved Oxygen SC659 LY Watershed High 4a Ottawa Creek Near Ottawa Aquatic Life Dissolved Oxygen SC656 FR, AN Watershed High 4a Salt Creek Near Lyndon Aquatic Life Dissolved Oxygen SC687 OS Watershed Low 4a Salt Creek Near Lyndon Aquatic Life Dissolved Oxygen SC687 OS								
Richter Newtyphalic Lake Water Supply Siltation LM066901 AN Lake Low	Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a Spring Creek Park Lake Recreation Aquatic Plants LM066801 DG Lake Low 4a Salt Creek Near Lyndon Aquatic Life Atrazine SCS78 OS, FR Watershed Low 4a 110 Mile Creek Near Scranton Aquatic Life Dissolved Oxygen SC633 OS, FR Watershed High 4a One Hundred Forty Two Mile Creek Near Reading Aquatic Life Dissolved Oxygen SC579 LY Watershed High 4a Ottawa Creek Near Ottawa Aquatic Life Dissolved Oxygen SC556 FR, AN Watershed High 4a Pottawa Creek Near Oxawatomie Aquatic Life Dissolved Oxygen SC556 FR, AN Watershed Low 4a Salt Creek Near Oxawatomie Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low 4a Switzler Creek Near Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low 4a Marais Des Cygenes River Recreation E. coll </td <td>5</td> <td></td> <td>Aquatic Life</td> <td>Lead</td> <td>SC692</td> <td>DG, OS, FR</td> <td>Watershed</td> <td>2023</td>	5		Aquatic Life	Lead	SC692	DG, OS, FR	Watershed	2023
4a Salt Creek Near Lyndon Aquatic Life Atrazine SC578 OS, FR Watershed Low 4a 110 Mile Creek Near Aquatic Life Dissolved Oxygen SC633 OS, FR Watershed Hilgh 4a One Hundred Forty Two Mile Creek Near Reading Aquatic Life Dissolved Oxygen SC616 DG, FR Watershed Hilgh 4a Ottawa Creek Near Ottawa Aquatic Life Dissolved Oxygen SC556 FR, AN Watershed Hilgh 4a Optawatomie Creek Near Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low 4a Salt Creek Near Lyndon Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low 4a Switzler Creek Near Aquatic Life Dissolved Oxygen SC687 OS Watershed Hilgh 4a Warais Des Cygnes River Recreation E. coli SC270 DG, FR Watershed Hilgh 4a Marais Des Cygnes River Recreation E. coli SC742 WB, LY Watershed Hilgh 4a Crystal Lake Aquatic Life Eutrophication LM040701 AN Lake Medium 4a Lebo City Park Lake Aquatic Life Eutrophication LM06901 AN Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM065601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM06601 OS Lake Low 4a One Hundred Forty Two Mile Creek Park Lake Aquatic Life Eutrophication LM06801 DG Lake Low 4a One Hundred Forty Two Mile Creek Park Lake Aquatic Life Eutrophication LM06801 DG Lake Hilgh 4a Cedar Creek Lake Aquatic Life Eutrophication LM06801 DG Lake Hilgh 4b Cedar Creek Park Lake Aquatic Life Eutrophication LM06801 DG Lake Hilgh 4c Cedar Creek Park Lake Aquatic Life Eutrophication LM06801 DG Lake Hilgh 4c Cedar Creek Park Lake Aquatic Life Eutrophication LM028001 OS Lake Hilgh 4c Cedar Creek Park Lake Aquatic Life Eutrophication LM06801 DG Lake Low 4d One Hundred Forty Two Mile Creek Near Reading Recreation Ecoli SC579 VW, OS Watershed Hilgh 4d Cedar Creek Park Lake Aquatic Life Copper LM04120 CF Lake 4d Cedar Creek Reading Recreation Ecoli SC570 OS, FR Watershed Watershed Surlningame 4d Cedar Creek Near Reading Recreation Ecoli SC55	5	Westphalia Lake	Water Supply	Siltation	LM066901	AN	Lake	2023
110 Mile Creek Near Aquatic Life Dissolved Oxygen SC633 OS, FR Watershed High	4a	Spring Creek Park Lake	Recreation	Aquatic Plants	LM066801	DG	Lake	Low
Scranton Au One Hundred Forty Two Mile Creek Near Reading Mile Creek Near Ottawa Aquatic Life Dissolved Oxygen SC556 FR, AN Watershed Hilgh Dosawatomie Creek Near Aquatic Life Dissolved Oxygen SC556 FR, AN Watershed Hilgh Aguatic Creek Near Lyndon Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low Marais Des Cygnes River Recreation E. coli SC270 DG, FR Watershed Hilgh Marais Des Cygnes River Near Coltawa Recreation E. coli SC270 DG, FR Watershed Hilgh Near Ottawa Reading Marais Des Cygnes River Near Ceading E. coli SC742 WB, LY Watershed Hilgh Near Reading Watershed Aquatic Life Eutrophication LMO4701 AN Lake Hilgh Near Reading Lebo City Park Lake Aquatic Life Eutrophication LMO64901 AN Lake Medium Lake Low Low Lake Lebo City Park Lake Aquatic Life Eutrophication LMO66101 OS Lake Low Low Pomona Lake Aquatic Life Eutrophication LMO66101 OS Lake Low Low Lake Near Reading Low Life Eutrophication LMO6601 DG Lake Low Low Mile Creek Near Reading Recreation Fecal Coli SC579 LY Watershed Hilgh Mile Creek Near Reading Recreation Fecal Coli SC579 LY Watershed Hilgh Lake Coder Creek Lake Aquatic Life Eutrophication LMO6601 DG Lake Low Low Lake Low Lake Low Low	4a	Salt Creek Near Lyndon	Aquatic Life	Atrazine	SC578	OS, FR	Watershed	Low
Mile Creek Near Reading 4a Ottawa Creek Near Ottawa Aquatic Life Dissolved Oxygen SC556 FR, AN Watershed High Dissolved Oxygen SC556 FR, AN Watershed High Oxwatomie Creek Near Lyndon Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low Watershed Burlingame Aguatic Life Dissolved Oxygen SC687 OS Watershed High Burlingame Aguatic Life Dissolved Oxygen SC687 OS Watershed High Burlingame Recreation E. coli SC270 DG, FR Watershed High Near Ottawa Recreation E. coli SC270 WB, LY Watershed High Near Ottawa Recreation E. coli SC270 WB, LY Watershed High Near Ottawa Recreation LMO40701 AN Lake High Near Ottawa Recreation LMO40701 AN Lake Medium Lake Medium Lake Low Color Lake Aguatic Life Eutrophication LMO64901 AN Lake Medium Lake Low Low Aguatic Life Eutrophication LMO6601 CF Lake Low Low Pomona Lake Aquatic Life Eutrophication LMO6601 OS Lake Low Low Pomona Lake Aquatic Life Eutrophication LMO6601 OS Lake Low Low Mile Creek Near Reading Recreation Recreation LMO6601 DG Lake Low Mile Creek Near Reading Recreation Recreation LMO6601 DG Lake Low Mile Creek Near Reading Recreation Eccl Coli SC579 LY Watershed High Mile Creek Near Reading Recreation Eccl Coli SC579 LY Watershed High Aga Cedar Creek Lake Water Supply Siltation LMO4701 AN Lake High Mile Creek Near Reading Recreation Eccl Low SC577 WB, OS Watershed High Aga Dragoon Creek Near Reading Recreation Eccl Coli SC579 WB, OS Watershed Water Supply Siltation LMO28001 OS Lake High Recreation Recreation Eccl Coli SC579 WB, OS Watershed Recreation Recreation Eccli SC579 WB, OS, FR Watershed Recreation Recreation Eccli SC579 WB, OS, FR Watershed Recreation Recreation Eccli SC579 WB, OS, FR Watershed Recreation Recreation Eccli SC556 FR, AN Watershed Watershed Recreation Eccli SC566 FR, AN Watershed Recreation Eccli SC556 FR, AN Wa	4a		Aquatic Life	Dissolved Oxygen	SC633	OS, FR	Watershed	High
4a Pottawatomie Creek Near Osawatomie Aquatic Life Osawatomie Dissolved Oxygen SC556 FR, AN Watershed High 4a Salt Creek Near Lyndon Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low 4a Switzler Creek Near Burlingame Aquatic Life Dissolved Oxygen SC687 OS Watershed High 4a Marais Des Cygnes River Near Ottawa Recreation E. coli SC742 WB, LY Watershed High 4a Cedar Creek Lake Aquatic Life Eutrophication LM040701 AN Lake High 4a Cedar Creek Lake Aquatic Life Eutrophication LM066901 AN Lake Low 4a Lebo City Park Lake Aquatic Life Eutrophication LM06601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM06601 OS Lake Low 4a Spring Creek Park Lake Aquatic Life Eutrophication LM028001	4a		Aquatic Life	Dissolved Oxygen	SC579	LY	Watershed	High
Osawatomie 4a Salt Creek Near Lyndon Aquatic Life Dissolved Oxygen SC578 OS, FR Watershed Low 4a Switzler Creek Near Burlingame 4a Marais Des Cygnes River Near Ottawa Amarais Des Cygnes River Near Cittawa Aguatic Life Dissolved Oxygen SC687 OS Watershed High 4a Marais Des Cygnes River Near Ottawa Amarais Des Cygnes River Near Cittawa Aguatic Life Eutrophication LM040701 AN Lake High 4a Cedar Creek Lake Aquatic Life Eutrophication LM064901 AN Lake Medium 4a Lebo City Park Lake Aquatic Life Eutrophication LM065601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake High 4a Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low 4a One Hundred Forty Two Mile Creek Near Reading 4a Cedar Creek Lake Water Supply Siltation LM066801 DG Lake High 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM040701 CF Lake High 4a Pomona Lake Water Supply Siltation LM040701 CF Lake High 4a Dragoon Creek Near Reading E. coli SC577 WB, OS Watershed Europhication Recreation E. coli SC570 DS, CF Watershed Surface Rear Rear Rear Rear Rear Rear Rear Rea	4a	Ottawa Creek Near Ottawa	Aquatic Life	Dissolved Oxygen	SC616	DG, FR	Watershed	High
da Switzler Creek Near Burlingame Aquatic Life Burlingame Dissolved Oxygen SC687 OS Watershed High da Marais Des Cygnes River Near Ottawa Recreation E. coli SC270 DG, FR Watershed High da Marais Des Cygnes River Near Ottawa Recreation E. coli SC742 WB, LY Watershed High da Marais Des Cygnes River Near Reading Recreation E. coli SC742 WB, LY Watershed High da Cedar Creek Lake Aquatic Life Eutrophication LM040701 AN Lake High da Cedar Creek Lake Aquatic Life Eutrophication LM06501 CF Lake Low da Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low da Spring Creek Park Lake Aquatic Life Eutrophication LM028001 OS Lake Low da Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low da Chear Creek Lake Aquatic Life Eutrophication LM066801 DG Lake Low da Cedar Creek Lake Water	4a		Aquatic Life	Dissolved Oxygen	SC556	FR, AN	Watershed	High
Burlingame Aa Marais Des Cygnes River Near Ottawa Aa Marais Des Cygnes River Near Ottawa Aa Marais Des Cygnes River Near Reading Aa Cedar Creek Lake Aquatic Life Eutrophication LM040701 AN Lake High Aa Crystal Lake Aquatic Life Eutrophication LM064901 AN Lake Medium Aa Lebo City Park Lake Aquatic Life Eutrophication LM066901 CF Lake Low Aa Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low Aa Spring Creek Park Lake Aquatic Life Eutrophication LM066101 OS Lake Low Aa Spring Creek Park Lake Aquatic Life Eutrophication LM068001 DG Lake Low Aa Spring Creek Park Lake Aquatic Life Eutrophication LM068001 DG Lake High Aa Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake High Aa Cedar Creek Lake Water Supply Siltation LM068001 DG Lake High Aa Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High Aa Pomona Lake Water Supply Siltation LM040701 AN Lake High Aa Pomona Lake Water Supply Siltation LM040701 OS Lake High Aa Pomona Lake Squatic Life Copper LM041201 CF Lake Apagoon Creek Near Reading Recreation E. coli SC577 WB, OS Watershed Amarais Des Cygnes River Recreation E. coli SC570 OS, FR Watershed Amarais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed Amarais Des Cygnes River Recreation E. coli SC556 FR, AN Watershed	4a	Salt Creek Near Lyndon	Aquatic Life	Dissolved Oxygen	SC578	OS, FR	Watershed	Low
Near Ottawa Recreation E. coli SC742 WB, LY Watershed High 4a Marais Des Cygnes River Near Reading Recreation E. coli SC742 WB, LY Watershed High 4a Cedar Creek Lake Aquatic Life Eutrophication LM064901 AN Lake Medium 4a Crystal Lake Aquatic Life Eutrophication LM065601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low 4a Pomona Lake Aquatic Life Eutrophication LM028001 OS Lake Low 4a Spring Creek Park Lake Aquatic Life Eutrophication LM028001 OS Lake Low 4a Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low 4a One Hundred Forty Two Mile Creek Near Reading Recreation Fecal Coli SC579 LY Watershed High 4a Cedar Creek Lake Water Supply Siltation LM040701 <td>4a</td> <td></td> <td>Aquatic Life</td> <td>Dissolved Oxygen</td> <td>SC687</td> <td>OS</td> <td>Watershed</td> <td>High</td>	4a		Aquatic Life	Dissolved Oxygen	SC687	OS	Watershed	High
Near Reading 4a Cedar Creek Lake Aquatic Life Eutrophication LM040701 AN Lake High 4a Crystal Lake Aquatic Life Eutrophication LM064901 AN Lake Medium 4a Lebo City Park Lake Aquatic Life Eutrophication LM065601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low 4a Pomona Lake Aquatic Life Eutrophication LM028001 OS Lake High 4a Spring Creek Park Lake Aquatic Life Eutrophication LM06801 DG Lake Low 4a One Hundred Forty Two Recreation Fecal Coli SC579 LY Watershed High 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 4a Pomona Lake Cedar Creek Lake Water Supply Siltation LM028001 OS Lake High 4a Pomona Lake Recreation E. coli SC577 WB, OS Watershed 4 Dragoon Creek Near Recreation E. coli SC720 OS, CF Watershed 4 Marais Des Cygnes River Near Quenemo 5 Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed 6 Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed 7 Ottawa Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	, -	Recreation	E. coli	SC270	DG, FR	Watershed	High
Crystal Lake Aquatic Life Eutrophication LM064901 AN Lake Medium 4a Lebo City Park Lake Aquatic Life Eutrophication LM065601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low 4a Pomona Lake Aquatic Life Eutrophication LM028001 OS Lake High 4a Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low 4a One Hundred Forty Two Mile Creek Near Reading Siltation LM040701 AN Lake High 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 4a Pomona Lake Aquatic Life Copper LM041201 CF Lake 3 Dragoon Creek Near Readion E. coli SC577 WB, OS Watershed 3 Marais Des Cygnes River Near Quenemo 3 Marais Des Cygnes River Near Recreation E. coli SC555 OS, FR Watershed 3 Ottawa Creek Near Ottawa Recreation E. coli SC556 FR, AN Watershed 3 Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	· -	Recreation	E. coli	SC742	WB, LY	Watershed	High
Lebo City Park Lake Aquatic Life Eutrophication LM065601 CF Lake Low 4a Osage City Reservoir Aquatic Life Eutrophication LM066101 OS Lake Low 4a Pomona Lake Aquatic Life Eutrophication LM028001 OS Lake High 4a Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low 4a One Hundred Forty Two Mile Creek Near Reading Recreation Fecal Coli SC579 LY Watershed High 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 4a Pomona Lake Gotty Lake Aquatic Life Copper LM041201 CF Lake 4 Dragoon Creek Near Recreation E. coli SC577 WB, OS Watershed 5 Dragoon Creek Near Recreation E. coli SC720 OS, CF Watershed 6 Water Supply Siltation SC720 OS, CF Watershed 7 Marais Des Cygnes River Near Quenemo E. coli SC555 OS, FR Watershed 8 Ottawa Creek Near Ottawa Recreation E. coli SC566 FR, AN Watershed	4a	Cedar Creek Lake	Aquatic Life	Eutrophication	LM040701	AN	Lake	High
4aOsage City ReservoirAquatic LifeEutrophicationLM066101OSLakeLow4aPomona LakeAquatic LifeEutrophicationLM028001OSLakeHigh4aSpring Creek Park LakeAquatic LifeEutrophicationLM066801DGLakeLow4aOne Hundred Forty Two Mile Creek Near ReadingRecreationFecal ColiSC579LYWatershedHigh4aCedar Creek LakeWater SupplySiltationLM040701ANLakeHigh4aPomona LakeWater SupplySiltationLM028001OSLakeHigh3Lebo City LakeAquatic LifeCopperLM041201CFLake3Dragoon Creek Near BurlingameRecreationE. coliSC577WB, OSWatershed3Marais Des Cygnes River Near QuenemoRecreationE. coliSC720OS, CFWatershed3Marais Des Cygnes River Near RichterRecreationE. coliSC555OS, FRWatershed3Ottawa Creek Near OttawaRecreationE. coliSC556FR, ANWatershed	4a	Crystal Lake	Aquatic Life	Eutrophication	LM064901	AN	Lake	Medium
Pomona Lake Aquatic Life Eutrophication LM028001 OS Lake High A Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low A One Hundred Forty Two Mile Creek Near Reading A Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High A Pomona Lake Water Supply Siltation LM028001 OS Lake High A Lebo City Lake Aquatic Life Copper LM041201 CF Lake A Dragoon Creek Near Recreation E. coli SC577 WB, OS Watershed Marais Des Cygnes River Near Quenemo Recreation E. coli SC555 OS, FR Watershed Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed A Ottawa Creek Near Ottawa Recreation E. coli SC556 FR, AN Watershed Pomona Lake High Marais Des Cygnes River Recreation E. coli SC556 FR, AN Watershed	4a	Lebo City Park Lake	Aquatic Life	Eutrophication	LM065601	CF	Lake	Low
Spring Creek Park Lake Aquatic Life Eutrophication LM066801 DG Lake Low 4a One Hundred Forty Two Mile Creek Near Reading 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 3 Lebo City Lake Aquatic Life Copper LM041201 CF Lake 3 Dragoon Creek Near Burlingame 3 Marais Des Cygnes River Near Quenemo 4 Marais Des Cygnes River Near Recreation E. coli SC555 OS, FR Watershed 4 Marais Des Cygnes River Near Recreation E. coli SC555 DG, FR Watershed 5 Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed 7 Ottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	Osage City Reservoir	Aquatic Life	Eutrophication	LM066101	OS	Lake	Low
Aa One Hundred Forty Two Mile Creek Near Reading Aa Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High Aa Pomona Lake Water Supply Siltation LM028001 OS Lake High Aa Pomona Lake Aquatic Life Copper LM041201 CF Lake Burlingame Recreation E. coli SC577 WB, OS Watershed Marais Des Cygnes River Near Quenemo Marais Des Cygnes River Near Recreation E. coli SC555 OS, FR Watershed Marais Des Cygnes River Near Recreation E. coli SC556 FR, AN Watershed Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	Pomona Lake	Aquatic Life	Eutrophication	LM028001	OS	Lake	High
Mile Creek Near Reading 4a Cedar Creek Lake Water Supply Siltation LM040701 AN Lake High 4a Pomona Lake Water Supply Siltation LM028001 OS Lake High 3 Lebo City Lake Aquatic Life Copper LM041201 CF Lake 3 Dragoon Creek Near Recreation E. coli SC577 WB, OS Watershed 3 Marais Des Cygnes River Near Quenemo 3 Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed 3 Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed 3 Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	Spring Creek Park Lake	Aquatic Life	Eutrophication	LM066801	DG	Lake	Low
Pomona Lake Water Supply Siltation LM028001 OS Lake High Lebo City Lake Aquatic Life Copper LM041201 CF Lake Recreation E. coli SC577 WB, OS Watershed Marais Des Cygnes River Near Quenemo Marais Des Cygnes River Recreation E. coli SC720 OS, CF Watershed Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed Comper Cuenemo SC720 OS, CF Watershed Comp	4a		Recreation	Fecal Coli	SC579	LY	Watershed	High
3 Lebo City Lake Aquatic Life Copper LM041201 CF Lake 3 Dragoon Creek Near Recreation E. coli SC577 WB, OS Watershed 3 Marais Des Cygnes River Near Quenemo E. coli SC720 OS, CF Watershed 3 Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed 3 Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed 3 Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	Cedar Creek Lake	Water Supply	Siltation	LM040701	AN	Lake	High
Dragoon Creek Near Recreation E. coli SC577 WB, OS Watershed Burlingame Marais Des Cygnes River Recreation E. coli SC720 OS, CF Watershed Near Quenemo Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed Near Richter Coli SC555 OS, FR Watershed DG, FR Watershed Coli SC616 DG, FR Watershed Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	4a	Pomona Lake	Water Supply	Siltation	LM028001	OS	Lake	High
Burlingame 3 Marais Des Cygnes River Recreation E. coli SC720 OS, CF Watershed Near Quenemo 3 Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed Near Richter 3 Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed 3 Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	3	Lebo City Lake	Aquatic Life	Copper	LM041201	CF	Lake	
Near Quenemo Marais Des Cygnes River Recreation E. coli SC555 OS, FR Watershed Near Richter Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	3	_	Recreation	E. coli	SC577	WB, OS	Watershed	
Near Richter 3 Ottawa Creek Near Ottawa Recreation E. coli SC616 DG, FR Watershed 3 Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	3		Recreation	E. coli	SC720	OS, CF	Watershed	
3 Pottawatomie Creek Near Recreation E. coli SC556 FR, AN Watershed	3		Recreation	E. coli	SC555	OS, FR	Watershed	
	3	Ottawa Creek Near Ottawa	Recreation	E. coli	SC616	DG, FR	Watershed	
	3		Recreation	E. coli	SC556	FR, AN	Watershed	

10290102 Lower Marais Des Cygnes

Lowe	i Marais Des Cygnes						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Marais Des Cygnes W.A.	Water Supply	Arsenic	LM053201	LN	Lake	2023
5	Marais Des Cygnes River Near Henson	Aquatic Life	Atrazine	SC743	FR, MI	Watershed	2023
5	Bull Creek Near Henson	Recreation	E. coli	SC557	MI	Watershed	2023
5	Critzer Lake	Aquatic Life	Eutrophication	LM051301	LN	Lake	2023
5	Miola Lake	Aquatic Life	Eutrophication	LM051001	MI	Lake	2023
5	Pleasanton Lake #1	Aquatic Life	Eutrophication	LM066401	LN	Lake	2023
5	Pleasanton Lake #2	Aquatic Life	Eutrophication	LM066501	LN	Lake	2023
5	Spring Hill City Lake	Aquatic Life	Eutrophication	LM073501	JO	Lake	2023
4a	Mound City Lake	Recreation	Aquatic Plants	LM051401	LN	Lake	Medium
4a	Edgerton City Lake	Aquatic Life	Atrazine	LM065001	JO	Lake	Medium
4a	Big Sugar Creek Near Trading Post	Aquatic Life	Dissolved Oxygen	SC558	AN, LN	Watershed	Medium
4a	Marais Des Cygnes W.A.	Aquatic Life	Dissolved Oxygen	LM053201	LN	Lake	High
4a	Middle Creek Near New Lancaster	Aquatic Life	Dissolved Oxygen	SC697	MI	Watershed	High
4a	Mound City Lake	Aquatic Life	Dissolved Oxygen	LM051401	LN	Lake	Medium
4a	Edgerton City Lake	Aquatic Life	Eutrophication	LM065001	JO	Lake	Medium
4a	Hillsdale Lake	Aquatic Life	Eutrophication	LM035001	JO, MI	Lake	High
4a	Louisburg SFL	Aquatic Life	Eutrophication	LM043801	MI	Lake	High
4a	Marais Des Cygnes W.A.	Aquatic Life	Eutrophication	LM053201	LN	Lake	High
4a	Miami Co. SFL	Aquatic Life	Eutrophication	LM043601	MI	Lake	Medium
4a	Mound City Lake	Aquatic Life	Eutrophication	LM051401	LN	Lake	Medium
4a	Pleasanton Reservoir	Aquatic Life	Eutrophication	LM044201	LN	Lake	High
4a	Marais Des Cygnes W.A.	Aquatic Life	рН	LM053201	LN	Lake	High
4a	Miami Co. SFL	Aquatic Life	рН	LM043601	MI	Lake	Medium
4a	Mound City Lake	Aquatic Life	рН	LM051401	LN	Lake	Medium
4a	Marais Des Cygnes W.A.	Water Supply	Siltation	LM053201	LN	Lake	High
3	Marais Des Cygnes W.A.	Aquatic Life	Atrazine	LM053201	LN	Lake	
3	Marais Des Cygnes Near Trading Post	Aquatic Life	Biology	SC745	LN	Watershed	
3	Big Sugar Creek Near Trading Post	Recreation	E. coli	SC558	AN, LN	Watershed	
3	Marais Des Cygnes Near Trading Post	Recreation	E. coli	SC206	MI, LN	Watershed	
3	Marais Des Cygnes Near Trading Post	Recreation	E. coli	SC745	LN	Watershed	
3	Middle Creek Near New Lancaster	Recreation	E. coli	SC697	MI	Watershed	

1029	10290102										
Lowe	r Marais Des Cygnes										
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority				
3	La Cygne Lake	Aquatic Life	Eutrophication	LM044002	MI, LN	Lake					
3	Paola City Lake	Aquatic Life	Eutrophication	LM073201	MI	Lake					
1029											
	Osage	1	1	Challan		D. I. T.	D.1 - 11				
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority				
5	Little Osage River Near Fulton	Aquatic Life	Biology	SC207	AN, LN, AL, BB	Watershed	2023				
5	Little Osage River Near Fulton	Aquatic Life	Dissolved Oxygen	SC207	AN, LN, AL, BB	Watershed	2023				
4a	Little Osage River Near Fulton	Recreation	E. coli	SC207	AN, LN, AL, BB	Watershed	Medium				
4a	Prescott City Lake	Aquatic Life	Eutrophication	LM066601	LN	Lake	Low				
10290 Marn											
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority				
5	Marmaton River	Aquatic Life	Biology	SB324	BB	Watershed	2023				
5	Rock Creek Lake	Aquatic Life	Dissolved Oxygen	LM045201	ВВ	Lake	2023				
5	Marmaton River Near Fort Scott	Recreation	E. coli	SC208	ВВ	Watershed	2023				
5	Gunn Park East Lake	Aquatic Life	Eutrophication	LM065401	BB	Lake	2023				
5	Gunn Park West Lake	Aquatic Life	Eutrophication	LM065501	BB	Lake	2023				
5	Drywood Creek Near Garland	Aquatic Life	Selenium	SC617	BB, CR	Watershed	2023				
5	Drywood Creek Near Garland	Water Supply	Sulfate	SC617	BB, CR	Watershed	2023				
4a	Marmaton River Near Fort Scott	Aquatic Life	Biology	SC208	ВВ	Watershed	High				
4a	Bourbon Co. SFL	Aquatic Life	Dissolved Oxygen	LM013301	ВВ	Lake	Medium				
4a	Drywood Creek Near Garland	Aquatic Life	Dissolved Oxygen	SC617	BB, CR	Watershed	Low				
4a	Marmaton River Near Fort Scott	Aquatic Life	Dissolved Oxygen	SC208	ВВ	Watershed	High				
4a	Marmaton River Near Fort Scott	Aquatic Life	Dissolved Oxygen	SC559	AL, BB	Watershed	High				
4a	Bourbon Co. SFL	Aquatic Life	Eutrophication	LM013301	ВВ	Lake	Medium				
4a	Bronson City Lake	Aquatic Life	Eutrophication	LM046201	ВВ	Lake	Medium				
4a	Elm Creek Lake	Aquatic Life	Eutrophication	LM044801	ВВ	Lake	Low				
4a	Lake Crawford State Park #2	Aquatic Life	Eutrophication	LM011101	CR	Lake	High				
4a	Rock Creek Lake	Aquatic Life	Eutrophication	LM045201	ВВ	Lake	High				
4a	Bourbon Co. SFL	Aquatic Life	рН	LM013301	ВВ	Lake	Medium				

1029	0104 naton						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Marmaton River Near Fort	Aquatic Life	Biology	SC559	AL, BB	Watershed	Thoney
3	Drywood Creek Near Garland	Recreation	E. coli	SC617	BB, CR	Watershed	
	Curiana		Missouri Riv	er Basin			
1024 Tarki	0005 o-Wolf			3. 243			
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Wolf River Near Sparks	Aquatic Life	Atrazine	SC201	BR, DP	Watershed	2023
4a	Brown Co. SFL	Recreation	Aquatic Plants	LM010301	BR	Lake	Medium
4a	Troy Fair Lake	Recreation	Aquatic Plants	LM073801	DP	Lake	Low
4a	Hiawatha City Lake	Aquatic Life	Atrazine	LM011601	BR	Lake	Medium
4a	Wolf River Near Sparks	Aquatic Life	Biology	SC201	BR, DP	Watershed	High
4a	Brown Co. SFL	Aquatic Life	Dissolved Oxygen	LM010301	BR	Lake	Medium
4a	Wolf River Near Sparks	Recreation	E. coli	SC201	BR, DP	Watershed	High
4a	Brown Co. SFL	Aquatic Life	Eutrophication	LM010301	BR	Lake	Medium
4a	Hiawatha City Lake	Aquatic Life	Eutrophication	LM011601	BR	Lake	Medium
4a	Troy Fair Lake	Aquatic Life	Eutrophication	LM073801	DP	Lake	Low
4a	Brown Co. SFL	Aquatic Life	рН	LM010301	BR	Lake	Medium
3	Mosquito Creek Near Troy	Recreation	E. coli	SC722	DP	Watershed	
1024 South	0007 n Fork Big Nemaha						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	South Fork Nemaha River Near Bern	Water Supply	Arsenic	SC234	NM, JA	Watershed	2023
5	Sabetha City Lake	Aquatic Life	Atrazine	LM011501	NM	Lake	2023
5	South Fork Nemaha River Near Bern	Aquatic Life	Atrazine	SC234	NM, JA	Watershed	2023
5	South Fork Nemaha River Near Seneca	Recreation	E. coli	SC682	NM, PT	Watershed	2023
5	Pole Creek Near St. Benedict	Aquatic Life	Total Phosphorus	SC756	NM	Watershed	2023
5	South Fork Nemaha River Near Bern	Aquatic Life	Total Phosphorus	SC234	NM, JA	Watershed	2023
5	Turkey Creek Near Bern	Aquatic Life	Total Phosphorus	SC601	MS, NM	Watershed	2023
4a	Pole Creek Near St. Benedict	Aquatic Life	Atrazine	SC756	NM	Watershed	Medium
4a	Turkey Creek Near Bern	Aquatic Life	Atrazine	SC601	MS, NM	Watershed	Medium
4a	South Fork Nemaha River Near Bern	Aquatic Life	Biology	SC234	NM, JA	Watershed	High
Wedn	esday, March 07, 2018						Page 26 of 54

10240007 South Fork Big Nemaha									
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority		
4a	South Fork Nemaha River Near Bern	Recreation	E. coli	SC234	NM, JA	Watershed	High		
4a	Sabetha City Lake	Aquatic Life	Eutrophication	LM011501	NM	Lake	Low		
4a	Turkey Creek Near Bern	Recreation	Fecal Coli	SC601	MS, NM	Watershed	Low		
4a	South Fork Nemaha River Near Seneca	Aquatic Life	Selenium	SC682	NM, PT	Watershed	Low		
3	South Fork Nemaha River Near Seneca	Aquatic Life	Atrazine	SC682	NM, PT	Watershed			
3	Nemaha Co. SFL/W.A.	Aquatic Life	Eutrophication	LM010801	NM	Lake			
3	Pole Creek Near St. Benedict	Aquatic Life	Total Suspended Solids	SC756	NM	Watershed			
10240 Big N	0008 emaha								
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority		
5	Pony Creek Near Reserve	Aquatic Life	Atrazine	SC291	NM, BR	Watershed	2023		
5	Roys Creek Near Reserve	Aquatic Life	Atrazine	SC552	BR, DP	Watershed	2023		
5	Walnut Creek Near Reserve	Aquatic Life	Atrazine	SC292	BR, DP	Watershed	2023		
5	Walnut Creek Near Reserve	Aquatic Life	Total Phosphorus	SC292	BR, DP	Watershed	2023		
5	Walnut Creek Near Reserve	Aquatic Life	Total Suspended Solids	SC292	BR, DP	Watershed	2023		
4a	Pony Creek Lake	Aquatic Life	Eutrophication	LM073001	BR	Lake	High		
4a	Walnut Creek Near Reserve	Recreation	Fecal Coli	SC292	BR, DP	Watershed	High		
3	Pony Creek Near Reserve	Recreation	E. coli	SC291	NM, BR	Watershed			
3	Roys Creek Near Reserve	Water Supply	Nitrate	SC552	BR, DP	Watershed			
10240 Indep	0011 endence-Sugar								
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority		
5	Atchison Co. SFL	Aquatic Life	Atrazine	LM012601	AT	Lake	2023		
5	Lake Warnock (Atchison City Lake)	Aquatic Life	Eutrophication	LM039801	AT	Lake	2023		
5	Merrit Lake	Aquatic Life	Eutrophication	LM020801	LV	Lake	2023		
5	Smith Lake	Aquatic Life	Eutrophication	LM020701	LV	Lake	2023		
4a	Atchison Co. SFL	Recreation	Aquatic Plants	LM012601	AT	Lake	Low		
4a	Atchison Co. SFL	Aquatic Life	Dissolved Oxygen	LM012601	AT	Lake	Low		
4a	Atchison Co. SFL	Aquatic Life	Eutrophication	LM012601	AT	Lake	Medium		
4a	Big Eleven Lake	Aquatic Life	Eutrophication	LM067101	WY	Lake	Low		
4a	Jerry's Lake	Aquatic Life	Eutrophication	LM067801	LV	Lake	Low		
4a	Lansing City Lake	Aquatic Life	Eutrophication	LM067201	LV	Lake	Low		

10240 Indep	0011 pendence-Sugar						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Wyandotte Co. Lake	Aquatic Life	Eutrophication	LM042401	WY	Lake	High
4a	Atchison Co. SFL	Aquatic Life	рН	LM012601	AT	Lake	Medium
4a	Lansing City Lake	Aquatic Life	рН	LM067201	LV	Lake	Low
4a	Atchison Co. SFL	Water Supply	Siltation	LM012601	AT	Lake	High
3	Lansing City Lake	Aquatic Life	Copper	LM067201	LV	Lake	
3	Independence Creek Near Atchison	Recreation	E. coli	SC553	DP, AT	Watershed	
10300							
Lowe	r Missouri-Crooked						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Indian Creek Near Leawood	Aquatic Life	Biology	SC204	JO	Watershed	2023
5	Indian Creek Near Leawood	Water Supply	Chloride	SC204	JO	Watershed	2023
5	Heritage Park Lake	Aquatic Life	Eutrophication	LM062401	JO	Lake	2023
5	Blue River Near Stanley	Food Procurement	Mercury	SC205	JO	Watershed	2023
5	Indian Creek Near Leawood	Aquatic Life	Total Phosphorus	SC204	JO	Watershed	2023
4a	Blue River Near Stanley	Aquatic Life	Biology	SC205	JO	Watershed	Medium
4a	Blue River Near Stanley	Recreation	E. coli	SC205	JO	Watershed	Medium
4a	Indian Creek Near Leawood	Recreation	E. coli	SC204	JO	Watershed	Medium
4a	South Lake Park	Aquatic Life	Eutrophication	LM067501	JO	Lake	Low
4a	Indian Creek Near Leawood	Water Supply	Nitrate	SC204	JO	Watershed	High
3	Blue River Near Stanley	Aquatic Life	Diazinon	SC205	JO	Watershed	
3	Indian Creek Near Leawood	Aquatic Life	Diazinon	SC204	JO	Watershed	
3	Stohl Park Lake	Aquatic Life	Lead	LM062801	JO	Lake	
			Neosho Rive	r Basin			
11070 Neos	0201 ho Headwaters						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Eagle Creek Near Olpe	Aquatic Life	Atrazine	SC634	LY	Watershed	2023
5	Munkers Creek Near Council Grove	Aquatic Life	Dissolved Oxygen	SC631	WB, MR, LY	Watershed	2022
5	Flint Hills N.W.R.	Water Supply	Siltation	LM072401	CF	Lake	2023
4a	Neosho River Near Parkerville	Aquatic Life	Copper	SC637	MR	Watershed	Low
4a	Allen Creek Near Emporia	Aquatic Life	Dissolved Oxygen	SC628	LY	Watershed	Medium
4a	Eagle Creek Near Olpe	Aquatic Life	Dissolved Oxygen	SC634	LY	Watershed	High
4a	Council Grove Lake	Aquatic Life	Eutrophication	LM022001	MR	Lake	High

11070201 Neosho Headwaters							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	John Redmond Lake	Aquatic Life	Eutrophication	LM026001	LY, CF	Lake	Medium
4a	Jones Park Lake	Aquatic Life	Eutrophication	LM068701	LY	Lake	Low
4a	Lake Kahola	Aquatic Life	Eutrophication	LM043401	MR	Lake	Medium
4a	Olpe City Lake	Aquatic Life	Eutrophication	LM041001	LY	Lake	High
4a	Neosho River At Parkerville	Recreation	Fecal Coli	SC675	MR	Watershed	Medium
4a	Council Grove Lake	Water Supply	Siltation	LM022001	MR	Lake	High
4a	John Redmond Lake	Water Supply	Siltation	LM026001	LY, CF	Lake	Medium
4a	Olpe City Lake	Water Supply	Siltation	LM041001	LY	Lake	High
4a	Neosho River At Neosho Rapids	Aquatic Life	Total Phosphorus	SC273	LY	Watershed	High
4a	Neosho River Near Parkerville	Aquatic Life	Total Phosphorus	SC637	MR	Watershed	High
3	Four Mile Creek Near Council Grove	Aquatic Life	Biology	SC630	MR	Watershed	
3	John Redmond Lake	Aquatic Life	Dissolved Oxygen	LM026001	LY, CF	Lake	
3	Neosho River At Neosho Rapids	Recreation	E. coli	SC273	LY	Watershed	
3	Neosho River Near Americus	Recreation	E. coli	SC581	MR, LY	Watershed	
11070 Uppe	0202 r Cottonwood						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Mud Creek Near Marion	Aquatic Life	Atrazine	SC691	MN	Watershed	2023
5	South Cottonwood River Near Canada	Aquatic Life	Atrazine	SC635	MN, CS	Watershed	2023
5	Hillsboro City Lake	Aquatic Life	Eutrophication	LM020901	MN	Lake	2023
5	Mud Creek Near Marion	Water Supply	Sulfate	SC691	MN	Watershed	2023
5	North Cottonwood River Near Durham	Water Supply	Sulfate	SC636	MP, MN, HV	Watershed	2023
5	South Cottonwood River Near Canada	Aquatic Life	Total Phosphorus	SC635	MN, CS	Watershed	2023
4a	French Creek Near Hillsboro	Aquatic Life	Dissolved Oxygen	SC676	MN	Watershed	Medium
4a	Marion Co. Lake	Aquatic Life	Dissolved Oxygen	LM012101	MN	Lake	Medium
4a	Mud Creek Near Marion	Recreation	E. coli	SC691	MN	Watershed	High
4a	Marion Co. Lake	Aquatic Life	Eutrophication	LM012101	MN	Lake	Medium
4a	Marion Lake	Aquatic Life	Eutrophication	LM020001	MN	Lake	High
4a	Clear Creek Near Marion	Water Supply	Sulfate	SC690	MR, MN	Watershed	Low
4 -	5 1 6 1 11 51	144 . 6 . 1	C 15 :	66420	1.15.7	144 1 1 1	

Doyle Creek Near Florence

Clear Creek Near Marion

Water Supply

Aquatic Life

Sulfate

Alachlor

SC120

SC690

 HV

MR, MN

Watershed

Watershed

4a

3

Low

11076 Uppe	0202 r Cottonwood						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Clear Creek Near Marion	Aquatic Life	Atrazine	SC690	MR, MN	Watershed	
11076 Lowe	0203 r Cottonwood						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cottonwood River Near Elmdale	Aquatic Life	Atrazine	SC627	MN, CS	Watershed	2023
5	Peter Pan Lake	Aquatic Life	Eutrophication	LM068901	LY	Lake	2023
5	Bloody Creek Near Saffordville	Water Supply	Sulfate	SC689	CS	Watershed	2023
5	Cottonwood River Near Elmdale	Aquatic Life	Total Suspended Solids	SC627	MN, CS	Watershed	2023
5	Cottonwood River Near Plymouth	Aquatic Life	Total Suspended Solids	SC275	CS	Watershed	2023
4a	Fox Creek Near Strong City	Aquatic Life	Biology	SC718	CS	Watershed	Medium
4a	Palmer Creek Near Strong City	Aquatic Life	Biology	SC719	CS	Watershed	Medium
4a	South Fork Cottonwood River Near Bazaar	Aquatic Life	Biology	SC582	CS	Watershed	Medium
4a	Cottonwood River Near Elmdale	Water Supply	Sulfate	SC627	MN, CS	Watershed	Low
4a	Cottonwood River Near Emporia	Aquatic Life	Total Phosphorus	SC274	LY, CS	Watershed	High
3	Cottonwood River Near Emporia	Aquatic Life	Biology	SC274	LY, CS	Watershed	
3	Bloody Creek Near Saffordville	Recreation	E. coli	SC689	CS	Watershed	
3	Diamond Creek Near Strong City	Recreation	E. coli	SC625	MR, CS	Watershed	
3	Middle Creek Near Elmdale	Recreation	E. coli	SC626	MN, CS	Watershed	
3	Rock Creek near Bazaar	Aquatic Life	Total Suspended Solids	SC760	CS	Watershed	
11076 Uppe	0204 r Neosho						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Long Creek Near Le Roy	Aquatic Life	Atrazine	SC695	CF	Watershed	2023
5	Big Creek Near Chanute	Aquatic Life	Dissolved Oxygen	SC611	AL, NO	Watershed	2022
5	Deer Creek Near Iola	Aquatic Life	Dissolved Oxygen	SC609	AN, AL	Watershed	2022
5	Long Creek Near Le Roy	Aquatic Life	Dissolved Oxygen	SC695	CF	Watershed	2022
5	Owl Creek Near Humboldt	Aquatic Life	Dissolved Oxygen	SC610	WO, WL	Watershed	2022
5	Circle Lake	Aquatic Life	Eutrophication	LM021101	WO	Lake	2023
5	Leonard's Lake	Aquatic Life	Eutrophication	LM021301	WO	Lake	2023
5	Neosho Falls City Lake	Aquatic Life	Eutrophication	LM021401	WO	Lake	2023

11	.070	204	1	
Ur	oper	Ne	eos	hc

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Owl Creek Near Humboldt	Aquatic Life	Copper	SC610	WO, WL	Watershed	Low
4a	Chanute Santa Fe Lake	Aquatic Life	Dissolved Oxygen	LM044401	NO	Lake	Medium
4a	Gridley City Lake	Aquatic Life	Dissolved Oxygen	LM045601	CF	Lake	Medium
4a	Turkey Creek Near Le Roy	Recreation	E. coli	SC614	CF, WO	Watershed	High
4a	Chanute Santa Fe Lake	Aquatic Life	Eutrophication	LM044401	NO	Lake	Medium
4a	Gridley City Lake	Aquatic Life	Eutrophication	LM045601	CF	Lake	Medium
4a	Deer Creek Near Iola	Recreation	Fecal Coli	SC609	AN, AL	Watershed	Medium
4a	Chanute Santa Fe Lake	Aquatic Life	рН	LM044401	NO	Lake	Medium
3	Big Creek Near Chanute	Recreation	E. coli	SC611	AL, NO	Watershed	
3	Wolf Creek Lake	Aquatic Life	Selenium	LM039601	CF	Lake	

11070205 Middle Neosho

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cherry Creek Near Faulkner	Aquatic Life	Atrazine	SC605	СК	Watershed	2023
5	Lightning Creek Near Oswego	Aquatic Life	Atrazine	SC565	CR, CK	Watershed	2023
5	Labette Creek Near Labette	Aquatic Life	Biology	SC564	NO, LB	Watershed	2023
5	Neosho River near Chetopa	Aquatic Life	Biology	SC214	LB	Watershed	2022
5	Labette Creek Near Labette	Aquatic Life	Diazinon	SC564	NO, LB	Watershed	2023
5	Mined Land Lake 14	Aquatic Life	Eutrophication	LM036101	CK	Lake	2023
5	Mined Land Lake 19	Aquatic Life	Eutrophication	LM036501	CK	Lake	2023
5	Mined Land Lake 24	Aquatic Life	Eutrophication	LM037001	CK	Lake	2023
5	Mined Land Lake 25	Aquatic Life	Eutrophication	LM037101	CK	Lake	2023
5	Mined Land Lake 26	Aquatic Life	Eutrophication	LM037201	CK	Lake	2023
5	Mined Land Lake 31	Aquatic Life	Eutrophication	LM037701	CK	Lake	2023
5	Mined Land Lake 34	Aquatic Life	Eutrophication	LM038001	CK	Lake	2023
5	Mined Land Lake 35	Aquatic Life	Eutrophication	LM038101	CK	Lake	2023
5	Mined Land Lake 36	Aquatic Life	Eutrophication	LM038201	CK	Lake	2023
5	Mined Land Lake 40	Aquatic Life	Eutrophication	LM038601	CK	Lake	2023
5	Mined Land Lake 41	Aquatic Life	Eutrophication	LM038701	CK	Lake	2023
5	Mined Land Lake WA	Water Supply	Siltation	LM038841	СК	Lake	2023
5	Cherry Creek Near Faulkner	Water Supply	Sulfate	SC605	СК	Watershed	2023
4a	Bachelor Creek Near Labette	Aquatic Life	Dissolved Oxygen	SC698	LB	Watershed	High
4a	Canville Creek Near Shaw	Aquatic Life	Dissolved Oxygen	SC612	AL, NO	Watershed	Medium
4a	Cherry Creek Near Faulkner	Aquatic Life	Dissolved Oxygen	SC605	CK	Watershed	High

11070205 Middle Neosho

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Labette Creek Near Labette	Aquatic Life	Dissolved Oxygen	SC564	NO, LB	Watershed	High
4a	Mined Land Lake WA	Aquatic Life	Dissolved Oxygen	LM038841	CK	Lake	Low
4a	Neosho Co. SFL	Aquatic Life	Dissolved Oxygen	LM044601	NO	Lake	Medium
4a	Altamont City Main Lake (#1)	Aquatic Life	Eutrophication	LM068001	LB	Lake	Low
4a	Altamont City West Lake (#3)	Aquatic Life	Eutrophication	LM068201	LB	Lake	Low
4a	Bartlett City Lake	Aquatic Life	Eutrophication	LM045401	LB	Lake	Low
4a	Neosho Co. SFL	Aquatic Life	Eutrophication	LM044601	NO	Lake	Medium
4a	Neosho W.A.	Aquatic Life	Eutrophication	LM053401	NO	Lake	Medium
4a	Parsons Lake	Aquatic Life	Eutrophication	LM041401	NO	Lake	Medium
4a	Neosho W.A.	Aquatic Life	Lead	LM053401	NO	Lake	Medium
4a	Neosho Co. SFL	Aquatic Life	рН	LM044601	NO	Lake	Medium
4a	Neosho W.A.	Aquatic Life	рН	LM053401	NO	Lake	Medium
4a	Neosho W.A.	Water Supply	Siltation	LM053401	NO	Lake	Medium
4a	Parsons Lake	Water Supply	Siltation	LM041401	NO	Lake	Medium
4a	Mined Land Lake WA	Water Supply	Sulfate	LM038841	СК	Lake	Low
4a	Mined Land Lake 12	Water Supply	Sulfate	LM035901	CK	Lake	Low
4a	Mined Land Lake 17	Water Supply	Sulfate	LM048201	СК	Lake	Low
4a	Mined Land Lake 22	Water Supply	Sulfate	LM036801	СК	Lake	Low
4a	Mined Land Lake 23	Water Supply	Sulfate	LM036901	СК	Lake	Low
4a	Mined Land Lake 27	Water Supply	Sulfate	LM037301	СК	Lake	Low
4a	Mined Land Lake 30	Water Supply	Sulfate	LM037601	СК	Lake	Low
4a	Mined Land Lake 44	Water Supply	Sulfate	LM048401	СК	Lake	Low
4a	Bachelor Creek Near Labette	Aquatic Life	Total Phosphorus	SC698	LB	Watershed	High
4a	Labette Creek Near Chetopa	Aquatic Life	Total Phosphorus	SC571	LB	Watershed	High
4a	Labette Creek Near Labette	Aquatic Life	Total Phosphorus	SC564	NO, LB	Watershed	High
3	Flat Rock Creek Near St. Paul	Aquatic Life	Atrazine	SC613	BB, NO, CR	Watershed	
3	Neosho W.A.	Aquatic Life	Atrazine	LM053401	NO	Lake	
3	Cherry Creek Near Faulkner	Recreation	E. coli	SC605	СК	Watershed	
3	Labette Creek Near Chetopa	Recreation	E. coli	SC571	LB	Watershed	
3	Labette Creek Near Labette	Recreation	E. coli	SC564	NO, LB	Watershed	
3	Lightning Creek Near Oswego	Recreation	E. coli	SC565	CR, CK	Watershed	

1107 Lake	0206 O' The Cherokees						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Tar Creek At Pitcher, Oklahoma	Aquatic Life	Cadmium	SC110	СК	Watershed	Medium
4a	Tar Creek At Pitcher, Oklahoma	Aquatic Life	Lead	SC110	CK	Watershed	Medium
4a	Tar Creek At Pitcher, Oklahoma	Aquatic Life	Zinc	SC110	СК	Watershed	Medium
1107	0207						
Sprin	g						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Shawnee Creek Near Crestline	Aquatic Life	Atrazine	SC569	CK	Watershed	2023
5	Mined Land Lake 01	Aquatic Life	Eutrophication	LM035101	CR	Lake	2023
5	Mined Land Lake 06	Aquatic Life	Eutrophication	LM047601	CR	Lake	2023
5	Mined Land Lake 08	Aquatic Life	Eutrophication	LM035501	CR	Lake	2023
5	Mined Land Lake 09	Aquatic Life	Eutrophication	LM035601	СК	Lake	2023
5	Short Creek Near Galena	Water Supply	Fluoride	SC570	CK	Watershed	2023
5	Short Creek Near Galena	Aquatic Life	Selenium	SC570	СК	Watershed	2023
5	Turkey Creek Near Joplin, Missouri	Aquatic Life	Total Phosphorus	SC211	MISSOURI	Watershed	
4a	Shoal Creek Near Galena	Aquatic Life	Biology	SC212	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Biology	SC213	СК	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Biology	SC568	CK	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Cadmium	SC569	CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Cadmium	SC212	CK	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Cadmium	SC570	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Cadmium	SC213	CK	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Cadmium	SC211	MISSOURI	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Copper	SC569	СК	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Copper	SC570	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Copper	SC213	СК	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Copper	SC568	CK	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Copper	SC211	MISSOURI	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Dissolved Oxygen	SC569	CK	Watershed	High
4a	Pittsburg College Lake	Aquatic Life	Eutrophication	LM073301	CR	Lake	Low

11070207
Spring

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Playter's Lake	Aquatic Life	Eutrophication	LM069001	CR	Lake	Low
4a	Shawnee Creek Near Crestline	Aquatic Life	Lead	SC569	CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Lead	SC212	СК	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Lead	SC570	СК	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Lead	SC213	CK	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Lead	SC568	СК	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Lead	SC211	MISSOURI	Watershed	High
4a	Pittsburg College Lake	Aquatic Life	рН	LM073301	CR	Lake	Low
4a	Cow Creek Near Lawton	Water Supply	Sulfate	SC567	CR, CK	Watershed	Low
4a	Mined Land Lake 06	Water Supply	Sulfate	LM047601	CR	Lake	Low
4a	Mined Land Lake 07	Water Supply	Sulfate	LM047801	CR	Lake	Low
4a	Cow Creek Near Lawton	Aquatic Life	Total Phosphorus	SC567	CR, CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Total Phosphorus	SC212	СК	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Total Phosphorus	SC570	СК	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Zinc	SC569	СК	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Zinc	SC212	СК	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Zinc	SC570	СК	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Zinc	SC213	CK	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Zinc	SC568	СК	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Zinc	SC211	MISSOURI	Watershed	High
4a	Willow Creek Near Baxter Springs	Aquatic Life	Zinc	SC747	CK	Watershed	High
3	Spring River Near Crestline	Recreation	E. coli	SC568	CK	Watershed	
3	Mined Land Lake 04	Aquatic Life	рН	LM035401	CR	Lake	
3	Mined Land Lake 04	Water Supply	Sulfate	LM035401	CR	Lake	

Smoky Hill- Saline River Basin

10260001

Smoky Hill Headwaters

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Willow Creek Near Weskan	Aquatic Life	Dissolved Oxygen	SC724	WA	Watershed	2023
5	Willow Creek Near Weskan	Water Supply	Fluoride	SC724	WA	Watershed	2023

1026 North	0002 n Fork Smoky Hill						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Smoky Hill Garden Lake	Aquatic Life	Eutrophication	LM070101	SH	Lake	Low
3	Smoky Hill Garden Lake	Water Supply	Fluoride	LM070101	SH	Lake	
1026 Uppe	0003 r Smoky Hill						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Smoky Hill River At Elkader	Water Supply	Arsenic	SC224	LG, WA, WH	Watershed	2023
5	Smoky Hill River At Elkader	Aquatic Life	Cadmium	SC224	LG, WA, WH	Watershed	2023
5	Smoky Hill River Near Trego	Recreation	E. coli	SC550	LG, GO, TR	Watershed	2023
5	Smoky Hill River Near Gove	Water Supply	Fluoride	SC739	LG, GO, SC, LE	Watershed	2023
5	Smoky Hill River Near Gove	Water Supply	Gross Alpha	SC739	LG, GO, SC, LE	Watershed	2023
5	Smoky Hill River At Elkader	Aquatic Life	Total Suspended Solids	SC224	LG, WA, WH	Watershed	2023
4a	Smoky Hill River Near Gove	Aquatic Life	Dissolved Oxygen	SC739	LG, GO, SC, LE	Watershed	Medium
4a	Smoky Hill River Near Trego	Aquatic Life	Dissolved Oxygen	SC550	LG, GO, TR	Watershed	Medium
4a	Cedar Bluff Lake	Aquatic Life	Eutrophication	LM013001	TR, NS	Lake	Medium
4a	Smoky Hill River At Elkader	Water Supply	Fluoride	SC224	LG, WA, WH	Watershed	Low
4a	Smoky Hill River At Elkader	Aquatic Life	Selenium	SC224	LG, WA, WH	Watershed	Low
4a	Smoky Hill River Near Gove	Aquatic Life	Selenium	SC739	LG, GO, SC, LE	Watershed	Low
4a	Smoky Hill River Near Trego	Aquatic Life	Selenium	SC550	LG, GO, TR	Watershed	Low
4a	Cedar Bluff Lake	Water Supply	Sulfate	LM013001	TR, NS	Lake	Low
4a	Smoky Hill River At Elkader	Water Supply	Sulfate	SC224	LG, WA, WH	Watershed	Low
4a	Smoky Hill River Near Gove	Water Supply	Sulfate	SC739	LG, GO, SC, LE	Watershed	Low
4a	Smoky Hill River Near Trego	Water Supply	Sulfate	SC550	LG, GO, TR	Watershed	Low
1026 Ladd	0004 er Creek						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Lake Scott State Park	Water Supply	Arsenic	LM011201	SC	Lake	2023
5	Lake Scott State Park	Water Supply	Fluoride	LM011201	SC	Lake	2023
4a	Lake Scott State Park	Recreation	Aquatic Plants	LM011201	SC	Lake	High
4a	Lake Scott State Park	Aquatic Life	Eutrophication	LM011201	SC	Lake	High
4a	Lake Scott State Park	Aquatic Life	рН	LM011201	SC	Lake	High
1026 Midd	0006 le Smoky Hill						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Fossil Creek Near Russell	Water Supply	Arsenic	SC713	RS	Watershed	2023

102600	06	
Middle	Smoky	Hill

Cat.Stream/LakeImpaired UseImpairmentStationCountiesBody Type5Smoky Hill River Near RussellWater SupplyArsenicSC007RS, EL, RHWatershed5Smoky Hill River At EllsworthAquatic LifeBiologySC269EWWatershed5Coal Creek Near WilsonAquatic LifeDissolved OxygenSC733RS, BTWatershed5Smoky Hill River Near SchoenchenWater SupplyGross AlphaSC539EL, TRWatershed5Coal Creek Near WilsonAquatic LifeSeleniumSC733RS, BTWatershed5Fossil Creek Near RussellAquatic LifeSeleniumSC713RSWatershed5Sellens Creek Near RussellAquatic LifeSeleniumSC714RS, BTWatershed5Smoky Hill River At EllsworthAquatic LifeSeleniumSC269EWWatershed5Smoky Hill River Near RussellAquatic LifeSeleniumSC007RS, EL, RHWatershed5Smoky Hill River Near SchoenchenAquatic LifeSeleniumSC539EL, TRWatershed5Smoky Hill River Near WilsonAquatic LifeSeleniumSC723BTWatershed5Fossil Creek Near RussellAquatic LifeSeleniumSC713RSWatershed	Priority 2023
Russell S Smoky Hill River At Ellsworth Aquatic Life Biology SC269 EW Watershed Coal Creek Near Wilson Aquatic Life Dissolved Oxygen SC733 RS, BT Watershed Smoky Hill River Near Schoenchen Coal Creek Near Wilson Aquatic Life Selenium SC733 RS, BT Watershed Landon Creek Near Russell Aquatic Life Selenium SC713 RS Watershed Landon Creek Near Russell Aquatic Life Selenium SC714 RS, BT Watershed Sellens Creek Near Russell Aquatic Life Selenium SC736 RS, BT Watershed Sellens Creek Near Russell Aquatic Life Selenium SC736 RS, BT Watershed Somoky Hill River At Ellsworth Smoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Smoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, RH Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, TR Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, TR Watershed Somoky Hill River Near Aquatic Life Selenium SC077 RS, EL, TR Watershed	
Ellsworth 5 Coal Creek Near Wilson Aquatic Life Dissolved Oxygen SC733 RS, BT Watershed 5 Smoky Hill River Near Water Supply Gross Alpha SC539 EL, TR Watershed 5 Coal Creek Near Wilson Aquatic Life Selenium SC733 RS, BT Watershed 5 Fossil Creek Near Russell Aquatic Life Selenium SC713 RS Watershed 5 Landon Creek Near Russell Aquatic Life Selenium SC714 RS, BT Watershed 5 Sellens Creek Near Russell Aquatic Life Selenium SC714 RS, BT Watershed 5 Sellens Creek Near Russell Aquatic Life Selenium SC736 RS, BT Watershed 5 Smoky Hill River At Ellsworth Selenium SC269 EW Watershed 5 Smoky Hill River Near Aquatic Life Selenium SC007 RS, EL, RH Watershed 5 Smoky Hill River Near Aquatic Life Selenium SC539 EL, TR Watershed 5 Smoky Hill River Near Aquatic Life Selenium SC539 EL, TR Watershed 5 Smoky Hill River Near Aquatic Life Selenium SC723 BT Watershed	
5Smoky Hill River Near SchoenchenWater Supply SchoenchenGross AlphaSC539EL, TRWatershed5Coal Creek Near WilsonAquatic LifeSeleniumSC733RS, BTWatershed5Fossil Creek Near RussellAquatic LifeSeleniumSC713RSWatershed5Landon Creek Near RussellAquatic LifeSeleniumSC714RS, BTWatershed5Sellens Creek Near RussellAquatic LifeSeleniumSC736RS, BTWatershed5Smoky Hill River At EllsworthAquatic LifeSeleniumSC269EWWatershed5Smoky Hill River Near 	2023
Schoenchen5Coal Creek Near WilsonAquatic LifeSeleniumSC733RS, BTWatershed5Fossil Creek Near RussellAquatic LifeSeleniumSC713RSWatershed5Landon Creek Near RussellAquatic LifeSeleniumSC714RS, BTWatershed5Sellens Creek Near RussellAquatic LifeSeleniumSC736RS, BTWatershed5Smoky Hill River At EllsworthAquatic LifeSeleniumSC269EWWatershed5Smoky Hill River Near RussellAquatic LifeSeleniumSC007RS, EL, RHWatershed5Smoky Hill River Near SchoenchenAquatic LifeSeleniumSC539EL, TRWatershed5Smoky Hill River Near WilsonAquatic LifeSeleniumSC723BTWatershed	2023
5Fossil Creek Near RussellAquatic LifeSeleniumSC713RSWatershed5Landon Creek Near RussellAquatic LifeSeleniumSC714RS, BTWatershed5Sellens Creek Near RussellAquatic LifeSeleniumSC736RS, BTWatershed5Smoky Hill River At EllsworthAquatic LifeSeleniumSC269EWWatershed5Smoky Hill River Near RussellAquatic LifeSeleniumSC007RS, EL, RHWatershed5Smoky Hill River Near SchoenchenAquatic LifeSeleniumSC539EL, TRWatershed5Smoky Hill River Near WilsonAquatic LifeSeleniumSC723BTWatershed	2023
5 Landon Creek Near Russell Aquatic Life Selenium SC714 RS, BT Watershed 5 Sellens Creek Near Russell Aquatic Life Selenium SC736 RS, BT Watershed 5 Smoky Hill River At Ellsworth Sc269 EW Watershed 5 Smoky Hill River Near Aquatic Life Selenium SC007 RS, EL, RH Watershed Russell 5 Smoky Hill River Near Aquatic Life Selenium SC539 EL, TR Watershed Schoenchen 5 Smoky Hill River Near Aquatic Life Selenium SC539 EL, TR Watershed Schoenchen 6 Smoky Hill River Near Aquatic Life Selenium SC723 BT Watershed Wilson	2023
5Sellens Creek Near RussellAquatic LifeSeleniumSC736RS, BTWatershed5Smoky Hill River At EllsworthAquatic LifeSeleniumSC269EWWatershed5Smoky Hill River Near RussellAquatic LifeSeleniumSC007RS, EL, RHWatershed5Smoky Hill River Near SchoenchenAquatic LifeSeleniumSC539EL, TRWatershed5Smoky Hill River Near WilsonAquatic LifeSeleniumSC723BTWatershed	2023
5 Smoky Hill River At Ellsworth Sclenium SC269 EW Watershed Ellsworth Schoenchen Schoen Schoe	2023
Ellsworth 5 Smoky Hill River Near Russell 5 Smoky Hill River Near Aquatic Life Selenium SC007 RS, EL, RH Watershed Schoenchen 5 Smoky Hill River Near Aquatic Life Selenium SC539 EL, TR Watershed Schoenchen 5 Smoky Hill River Near Aquatic Life Selenium SC723 BT Watershed Wilson	2023
Russell 5 Smoky Hill River Near Schoenchen 5 Smoky Hill River Near Aquatic Life Selenium SC539 EL, TR Watershed Schoenchen 5 Smoky Hill River Near Aquatic Life Selenium SC723 BT Watershed Wilson	2023
Schoenchen 5 Smoky Hill River Near Aquatic Life Selenium SC723 BT Watershed Wilson	2023
Wilson	2023
5 Fossil Creek Near Russell Aquatic Life Total Phosphorus SC713 RS Watershed	2023
	2023
5 Smoky Hill River Near Aquatic Life Total Phosphorus SC007 RS, EL, RH Watershed Russell	2023
5 Coal Creek Near Wilson Aquatic Life Total Suspended SC733 RS, BT Watershed Solids	2023
4a Beaver Creek Near Water Supply Chloride SC734 RS, BT Watershed Dorrance	Low
4a Coal Creek Near Wilson Water Supply Chloride SC733 RS, BT Watershed	Low
4a Fossil Creek Near Russell Water Supply Chloride SC713 RS Watershed	Low
4a Kanopolis Lake Water Supply Chloride LM016001 EW Lake	Low
4a Landon Creek Near Russell Water Supply Chloride SC714 RS, BT Watershed	Low
4a Smoky Hill River At Water Supply Chloride SC269 EW Watershed Ellsworth	Low
4a Smoky Hill River Near Water Supply Chloride SC007 RS, EL, RH Watershed Russell	Low
4a Smoky Hill River Near Water Supply Chloride SC723 BT Watershed Wilson	Low
4a Fossil Lake Aquatic Life Eutrophication LM052601 RS Lake	Low
4a Kanopolis Lake Aquatic Life Eutrophication LM016001 EW Lake	High
4a Fossil Lake Water Supply Siltation LM052601 RS Lake	Low
4a Beaver Creek Near Water Supply Sulfate SC734 RS, BT Watershed Dorrance	Low
4a Coal Creek Near Wilson Water Supply Sulfate SC733 RS, BT Watershed	
4a Fossil Creek Near Russell Water Supply Sulfate SC713 RS Watershed	Low

1026 Midd	0006 le Smoky Hill						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Kanopolis Lake	Water Supply	Sulfate	LM016001	EW	Lake	Low
4a	Landon Creek Near Russell	Water Supply	Sulfate	SC714	RS, BT	Watershed	Low
4a	Smoky Hill River At Ellsworth	Water Supply	Sulfate	SC269	EW	Watershed	Low
4a	Smoky Hill River Near Russell	Water Supply	Sulfate	SC007	RS, EL, RH	Watershed	Low
4a	Smoky Hill River Near Schoenchen	Water Supply	Sulfate	SC539	EL, TR	Watershed	Low
4a	Smoky Hill River Near Wilson	Water Supply	Sulfate	SC723	ВТ	Watershed	Low
3	Sellens Creek Near Russell	Aquatic Life	Atrazine	SC736	RS, BT	Watershed	
10260 Big C							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Big Creek near Russell	Aquatic Life	Biology	SC752	RS, EL	Watershed	2023
5	Big Creek Near Hays	Aquatic Life	Selenium	SC541	GO, EL, TR	Watershed	2023
5	Big Creek Near Munjor	Aquatic Life	Selenium	SC540	EL, TR	Watershed	2023
5	North Fork Big Creek Near Walker	Aquatic Life	Selenium	SC715	EL	Watershed	2023
5	Big Creek Near Munjor	Water Supply	Sulfate	SC540	EL, TR	Watershed	2023
4a	North Fork Big Creek Near Walker	Water Supply	Chloride	SC715	EL	Watershed	Low
4a	Big Creek Near Munjor	Recreation	E. coli	SC540	EL, TR	Watershed	Low
4a	Big Creek Oxbow	Aquatic Life	Eutrophication	LM070301	EL	Lake	Low
4a	Ellis City Lake	Aquatic Life	Eutrophication	LM069601	EL	Lake	Low
4a	Big Creek Near Munjor	Water Supply	Nitrate	SC540	EL, TR	Watershed	Low
4a	Big Creek Near Hays	Aquatic Life	Total Phosphorus	SC541	GO, EL, TR	Watershed	High
4a	Big Creek Near Munjor	Aquatic Life	Total Phosphorus	SC540	EL, TR	Watershed	High
4a	Big Creek near Russell	Aquatic Life	Total Phosphorus	SC752	RS, EL	Watershed	High
4a	North Fork Big Creek Near Walker	Aquatic Life	Total Phosphorus	SC715	EL	Watershed	High
4a	Big Creek Near Munjor	Aquatic Life	Total Suspended Solids	SC540	EL, TR	Watershed	Low
4a	Big Creek near Russell	Aquatic Life	Total Suspended Solids	SC752	RS, EL	Watershed	Low
3	Big Creek Near Hays	Recreation	E. coli	SC541	GO, EL, TR	Watershed	
10260 Lowe	0008 r Smoky Hill						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Smoky Hill River At Enterprise	Water Supply	Arsenic	SC265	DK, SA	Watershed	2023

102	60	800		
Low	/er	Smo	okv	Hil

LOVVE	•						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Gypsum Creek Near Solomon	Aquatic Life	Atrazine	SC641	SA, MP	Watershed	2023
5	Smoky Hill River At Junction City	Aquatic Life	Biology	SC264	GE, DK	Watershed	2022
5	Holland Creek Near Sand Springs	Recreation	E. coli	SC642	DK	Watershed	2023
5	Smoky Hill River At Enterprise	Water Supply	Gross Alpha	SC265	DK, SA	Watershed	2023
5	Smoky Hill River Near Salina	Water Supply	Nitrate	SC268	SA, MP	Watershed	2018
5	Holland Creek Near Sand Springs	Aquatic Life	Selenium	SC642	DK	Watershed	2023
5	Herington Reservoir	Water Supply	Siltation	LM047201	DK	Lake	2023
5	Mud Creek Near Abilene	Aquatic Life	Total Phosphorus	SC643	DK	Watershed	2018
5	Sharps Creek Near Freemount	Aquatic Life	Total Phosphorus	SC749	MP, RC	Watershed	2018
5	Smoky Hill River At Enterprise	Aquatic Life	Total Phosphorus	SC265	DK, SA	Watershed	2018
5	Smoky Hill River At Junction City	Aquatic Life	Total Phosphorus	SC264	GE, DK	Watershed	2018
5	Smoky Hill River Near Salina	Aquatic Life	Total Phosphorus	SC268	SA, MP	Watershed	2018
5	Chapman Creek Near Sutphen	Aquatic Life	Total Suspended Solids	SC515	CY, OT, DK	Watershed	2023
4a	McPherson Co. SFL	Recreation	Aquatic Plants	LM013501	MP	Lake	Medium
4a	Herington Reservoir	Aquatic Life	Atrazine	LM047201	DK	Lake	Medium
4a	Smoky Hill River At Enterprise	Aquatic Life	Biology	SC265	DK, SA	Watershed	Medium
4a	Smoky Hill River Near Salina	Aquatic Life	Biology	SC268	SA, MP	Watershed	Medium
4a	Smoky Hill River At Enterprise	Water Supply	Chloride	SC265	DK, SA	Watershed	Low
4a							
70	Smoky Hill River At Junction City	Water Supply	Chloride	SC264	GE, DK	Watershed	Low
4a	•	Water Supply Aquatic Life	Chloride Dissolved Oxygen	SC264 LM047201	GE, DK	Watershed Lake	Low
	Junction City						
4a	Junction City Herington Reservoir Holland Creek Near Sand	Aquatic Life	Dissolved Oxygen	LM047201	DK	Lake	High
4a 4a	Junction City Herington Reservoir Holland Creek Near Sand Springs	Aquatic Life Aquatic Life	Dissolved Oxygen Dissolved Oxygen	LM047201 SC642	DK DK	Lake Watershed	High High
4a 4a 4a	Junction City Herington Reservoir Holland Creek Near Sand Springs McPherson Co. SFL Smoky Hill River Near	Aquatic Life Aquatic Life Aquatic Life	Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen	LM047201 SC642 LM013501	DK DK MP	Lake Watershed Lake	High High Medium
4a 4a 4a 4a	Junction City Herington Reservoir Holland Creek Near Sand Springs McPherson Co. SFL Smoky Hill River Near Mentor	Aquatic Life Aquatic Life Aquatic Life Recreation	Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen E. coli	LM047201 SC642 LM013501 SC514	DK DK MP SA, EW, MP	Lake Watershed Lake Watershed	High High Medium High
4a 4a 4a 4a	Junction City Herington Reservoir Holland Creek Near Sand Springs McPherson Co. SFL Smoky Hill River Near Mentor Geary Co. SFL	Aquatic Life Aquatic Life Aquatic Life Recreation Aquatic Life	Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen E. coli Eutrophication	LM047201 SC642 LM013501 SC514 LM043201	DK DK MP SA, EW, MP	Lake Watershed Lake Watershed Lake	High High Medium High Medium
4a 4a 4a 4a 4a	Junction City Herington Reservoir Holland Creek Near Sand Springs McPherson Co. SFL Smoky Hill River Near Mentor Geary Co. SFL Herington City Lake	Aquatic Life Aquatic Life Aquatic Life Recreation Aquatic Life Aquatic Life	Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen E. coli Eutrophication Eutrophication	LM047201 SC642 LM013501 SC514 LM043201 LM069701	DK DK MP SA, EW, MP GE DK	Lake Watershed Lake Watershed Lake Lake	High High Medium High Medium Low
4a 4a 4a 4a 4a 4a	Junction City Herington Reservoir Holland Creek Near Sand Springs McPherson Co. SFL Smoky Hill River Near Mentor Geary Co. SFL Herington City Lake Herington City Park Lake	Aquatic Life Aquatic Life Aquatic Life Recreation Aquatic Life Aquatic Life Aquatic Life Aquatic Life	Dissolved Oxygen Dissolved Oxygen Dissolved Oxygen E. coli Eutrophication Eutrophication Eutrophication	LM047201 SC642 LM013501 SC514 LM043201 LM069701 LM072801	DK DK MP SA, EW, MP GE DK DK	Lake Watershed Lake Watershed Lake Lake Lake	High High Medium High Medium Low Low

102	600	008		
Ιοw	er	Sm	okv	Hil

Lowe	r Smoky Hill						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	McPherson Co. SFL	Aquatic Life	рН	LM013501	MP	Lake	Medium
4a	Carry Creek Near Lyona	Water Supply	Sulfate	SC708	DK	Watershed	Low
4a	Chapman Creek Near Sutphen	Water Supply	Sulfate	SC515	CY, OT, DK	Watershed	Low
4a	Gypsum Creek Near Solomon	Water Supply	Sulfate	SC641	SA, MP	Watershed	Low
4a	Holland Creek Near Sand Springs	Water Supply	Sulfate	SC642	DK	Watershed	Low
4a	Mud Creek Near Abilene	Water Supply	Sulfate	SC643	DK	Watershed	Low
4a	Smoky Hill River At Enterprise	Water Supply	Sulfate	SC265	DK, SA	Watershed	Low
4a	Smoky Hill River At Junction City	Water Supply	Sulfate	SC264	GE, DK	Watershed	Low
4a	Turkey Creek Near Abilene	Water Supply	Sulfate	SC644	DK, MN	Watershed	Low
4a	Smoky Hill River At Enterprise	Aquatic Life	Total Suspended Solids	SC265	DK, SA	Watershed	Low
4a	Smoky Hill River At Junction City	Aquatic Life	Total Suspended Solids	SC264	GE, DK	Watershed	Low
4a	Smoky Hill River Near Mentor	Aquatic Life	Total Suspended Solids	SC514	SA, EW, MP	Watershed	Low
4a	Smoky Hill River Near Salina	Aquatic Life	Total Suspended Solids	SC268	SA, MP	Watershed	Low
3	Herington City Lake	Water Supply	Arsenic	LM069701	DK	Lake	
3	Herington Reservoir	Water Supply	Arsenic	LM047201	DK	Lake	
3	Smoky Hill River At Junction City	Recreation	E. coli	SC264	GE, DK	Watershed	
3	Lakewood Park Lake	Aquatic Life	Lead	LM069801	SA	Lake	
3	Lakewood Park Lake	Water Supply	Siltation	LM069801	SA	Lake	
10260 Uppe	0009 r Saline						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Paradise Creek Near Waldo	Water Supply	Arsenic	SC538	OB, RO, RS	Watershed	2023
5	Saline River Near Hays	Water Supply	Arsenic	SC548	TH, RO, SD, GH, EL, TR	Watershed	2023
5	Paradise Creek Near Waldo	Aquatic Life	Dissolved Oxygen	SC538	OB, RO, RS	Watershed	2023
5	Saline River Near Hays	Aquatic Life	Dissolved Oxygen	SC548	TH, RO, SD, GH, EL, TR	Watershed	2023

Wilson Lake

Paradise Creek Near Waldo

Paradise Creek Near Waldo

Saline River Near Russell

Aquatic Life

Water Supply

Water Supply

Water Supply

Total Suspended

Solids

Chloride

Chloride

Chloride

SC538

SC538

SC011

LM014001

OB, RO, RS

OB, RO, RS

RO, RS, EL

 RS

Watershed

Watershed

Watershed

Lake

5

4a 4a

4a

2023

Low

Low

Low

10260	009	
Unner	Salii	26

Uppe	r Saline						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Plainville Township Lake	Aquatic Life	Eutrophication	LM070001	RO	Lake	Low
4a	Sheridan W.A.	Recreation	Fecal Coli	LM014501	SD	Lake	Low
4a	Sheridan W.A.	Aquatic Life	рН	LM014501	SD	Lake	Low
4a	Paradise Creek Near Waldo	Aquatic Life	Selenium	SC538	OB, RO, RS	Watershed	Low
4a	Saline River Near Hays	Aquatic Life	Selenium	SC548	TH, RO, SD, GH, EL, TR	Watershed	Low
4a	Saline River Near Russell	Aquatic Life	Selenium	SC011	RO, RS, EL	Watershed	Low
4a	Paradise Creek Near Waldo	Water Supply	Sulfate	SC538	OB, RO, RS	Watershed	Low
4a	Saline River Near Hays	Water Supply	Sulfate	SC548	TH, RO, SD, GH, EL, TR	Watershed	Low
4a	Saline River Near Russell	Water Supply	Sulfate	SC011	RO, RS, EL	Watershed	Low
4a	Wilson Lake	Water Supply	Sulfate	LM014001	RS	Lake	Low
3	Saline River Near Hays	Recreation	E. coli	SC548	TH, RO, SD, GH, EL, TR	Watershed	
10260 Lowe	0010 r Saline						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Spillman Creek Near Lincoln	Water Supply	Arsenic	SC673	MC, LC	Watershed	2023

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Spillman Creek Near Lincoln	Water Supply	Arsenic	SC673	MC, LC	Watershed	2023
5	Spillman Creek Near Lincoln	Aquatic Life	Atrazine	SC673	MC, LC	Watershed	2023
5	Saline River Near New Cambria	Aquatic Life	Biology	SC267	OT, LC,SA	Watershed	2023
5	Mulberry Creek Near Salina	Aquatic Life	Copper	SC640	SA, EW, MP	Watershed	2023
5	Wolf Creek Near Sylvan Grove	Aquatic Life	Dissolved Oxygen	SC537	OB, RS	Watershed	2023
5	Saline River Near Beverly	Aquatic Life	Selenium	SC513	LC	Watershed	2023
5	Mulberry Creek Near Salina	Aquatic Life	Total Phosphorus	SC640	SA, EW, MP	Watershed	2018
5	Saline River Near New Cambria	Aquatic Life	Total Phosphorus	SC267	OT, LC,SA	Watershed	2018
5	Spillman Creek Near Lincoln	Aquatic Life	Total Phosphorus	SC673	MC, LC	Watershed	2023
5	Saline River Near Beverly	Aquatic Life	Total Suspended Solids	SC513	LC	Watershed	2023
5	Saline River Near New Cambria	Aquatic Life	Total Suspended Solids	SC267	OT, LC,SA	Watershed	2023
5	Spillman Creek Near Lincoln	Aquatic Life	Total Suspended Solids	SC673	MC, LC	Watershed	2023
5	Wolf Creek Near Sylvan Grove	Aquatic Life	Total Suspended Solids	SC537	OB, RS	Watershed	2023
4a	Saline River Near Beverly	Water Supply	Chloride	SC513	LC	Watershed	Low
4a	Saline River Near New Cambria	Water Supply	Chloride	SC267	OT, LC,SA	Watershed	Low
4a	Wolf Creek Near Sylvan Grove	Water Supply	Chloride	SC537	OB, RS	Watershed	Low

1026 Lowe	0010 r Saline						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Spillman Creek Near Lincoln	Aquatic Life	Dissolved Oxygen	SC673	MC, LC	Watershed	High
4a	Wolf Creek Near Sylvan Grove	Aquatic Life	Selenium	SC537	OB, RS	Watershed	Low
4a	Bullfoot Creek Near Lincoln	Water Supply	Sulfate	SC672	LC, EW	Watershed	Low
4a	Elkhorn Creek Near Lincoln	Water Supply	Sulfate	SC671	LC, EW	Watershed	Low
4a	Saline River Near Beverly	Water Supply	Sulfate	SC513	LC	Watershed	Low
4a	Saline River Near New Cambria	Water Supply	Sulfate	SC267	OT, LC,SA	Watershed	Low
4a	Wolf Creek Near Sylvan Grove	Water Supply	Sulfate	SC537	OB, RS	Watershed	Low
3	Bullfoot Creek Near Lincoln	Recreation	E. coli	SC672	LC, EW	Watershed	
3	Saline River Near New Cambria	Recreation	E. coli	SC267	OT, LC,SA	Watershed	
3	Saline Co. SFL	Water Supply	Siltation	LM013701	SA	Lake	
Solomon River Basin							
1025 Midd	0016 le Republican						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Lake Jewell	Aquatic Life	Eutrophication	LM062901	JW	Lake	2023
1026							
	r North Fork Solomon	1		Cl. I'.		D. I. T	D.111
	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bow Creek Near Stockton	Water Supply	Arsenic	SC545	PL, RO, SD, GH	Watershed	2023
5	North Fork Solomon River Near Glade	Water Supply	Arsenic	SC546	PL, NT, TH, SD	Watershed	2023
5	Bow Creek Near Stockton	Water Supply	Sulfate	SC545	PL, RO, SD, GH	Watershed	2023
5	Bow Creek Near Stockton	Aquatic Life	Total Phosphorus	SC545	PL, RO, SD, GH	Watershed	2023
5	North Fork Solomon River Near Glade	Aquatic Life	Total Phosphorus	SC546	PL, NT, TH, SD	Watershed	2023
4a	Kirwin Lake	Aquatic Life	Dissolved Oxygen	LM011001	PL, RO	Lake	Medium
4a	Kirwin Lake	Aquatic Life	Eutrophication	LM011001	PL, RO	Lake	Medium
4a	Logan City Lake	Aquatic Life	Eutrophication	LM069301	PL	Lake	Low
4a	Bow Creek Near Stockton	Aquatic Life	Selenium	SC545	PL, RO, SD, GH	Watershed	Low
4a	North Fork Solomon River	Aquatic Life	Selenium	SC546	PL, NT, TH, SD	Watershed	Low

North Fork Solomon River

Water Supply

Sulfate

SC546

PL, NT, TH, SD

Watershed

Near Glade

Near Glade

4a

Low

Jppe Cat.	Stream/Lake Kirwin Lake	Impaired Use					
	-	Impaired Use					
3	Kirwin Lake		Impairment	Station	Counties	Body Type	Priority
		Water Supply	Arsenic	LM011001	PL, RO	Lake	
10260 Lowe	0012 r North Fork Solomon						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Beaver Creek Near Gaylord	Water Supply	Arsenic	SC670	SM	Watershed	2023
5	Cedar Creek near Cedar	Water Supply	Arsenic	SC753	SM	Watershed	2023
5	Deer Creek Near Kirwin	Water Supply	Arsenic	SC721	PL	Watershed	2023
5	North Fork Solomon River At Portis	Water Supply	Arsenic	SC014	SM, PL	Watershed	2023
5	Oak Creek Near Cawker City	Water Supply	Arsenic	SC544	JW, SM	Watershed	2023
5	North Fork Solomon River At Portis	Aquatic Life	Biology	SC014	SM, PL	Watershed	2023
5	Beaver Creek Near Gaylord	Aquatic Life	Dissolved Oxygen	SC670	SM	Watershed	2023
5	Deer Creek Near Kirwin	Aquatic Life	Dissolved Oxygen	SC721	PL	Watershed	2023
5	Oak Creek Near Cawker City	Aquatic Life	Dissolved Oxygen	SC544	JW, SM	Watershed	2023
5	Cedar Creek near Cedar	Aquatic Life	Selenium	SC753	SM	Watershed	2023
5	Beaver Creek Near Gaylord	Aquatic Life	Total Phosphorus	SC670	SM	Watershed	2023
5	Cedar Creek near Cedar	Aquatic Life	Total Phosphorus	SC753	SM	Watershed	2023
5	Deer Creek Near Kirwin	Aquatic Life	Total Phosphorus	SC721	PL	Watershed	2023
5	North Fork Solomon River At Portis	Aquatic Life	Total Phosphorus	SC014	SM, PL	Watershed	2023
5	Oak Creek Near Cawker City	Aquatic Life	Total Phosphorus	SC544	JW, SM	Watershed	2023
5	Twelve Mile Creek Near Downs	Aquatic Life	Total Phosphorus	SC674	SM, OB	Watershed	2023
5	North Fork Solomon River At Portis	Aquatic Life	Total Suspended Solids	SC014	SM, PL	Watershed	2023
4a	North Fork Solomon River At Portis	Recreation	E. coli	SC014	SM, PL	Watershed	Low
4a	Beaver Creek Near Gaylord	Aquatic Life	Selenium	SC670	SM	Watershed	Low
4a	Deer Creek Near Kirwin	Aquatic Life	Selenium	SC721	PL	Watershed	Low
4a	North Fork Solomon River At Portis	Aquatic Life	Selenium	SC014	SM, PL	Watershed	Low
4a	Oak Creek Near Cawker City	Aquatic Life	Selenium	SC544	JW, SM	Watershed	Low
4a	Beaver Creek Near Gaylord	Water Supply	Sulfate	SC670	SM	Watershed	Low
4a	Deer Creek Near Kirwin	Water Supply	Sulfate	SC721	PL	Watershed	Low
4a	North Fork Solomon River At Portis	Water Supply	Sulfate	SC014	SM, PL	Watershed	Low
4a	Oak Creek Near Cawker City	Water Supply	Sulfate	SC544	JW, SM	Watershed	Low
4a	Twelve Mile Creek Near Downs	Water Supply	Sulfate	SC674	SM, OB	Watershed	Low

10260013			
Upper South	Fork	Solom	or

Jppe	er South Fork Solomon						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Sheridan Co. SFL	Water Supply	Arsenic	LM069401	SD	Lake	2023
5	Antelope Lake	Aquatic Life	Eutrophication	LM069501	GH	Lake	2023
5	Webster Lake	Water Supply	Siltation	LM012001	RO	Lake	2023
4a	Sheridan Co. SFL	Aquatic Life	Dissolved Oxygen	LM069401	SD	Lake	Medium
4a	Sheridan Co. SFL	Aquatic Life	Eutrophication	LM069401	SD	Lake	Medium
4a	Webster Lake	Aquatic Life	Eutrophication	LM012001	RO	Lake	Medium
4a	South Fork Solomon River Near Damar	Aquatic Life	Selenium	SC547	TH, SD, GH	Watershed	Low
4a	South Fork Solomon River Near Damar	Water Supply	Sulfate	SC547	TH, SD, GH	Watershed	Low
4a	Webster Lake	Water Supply	Sulfate	LM012001	RO	Lake	Low
3	Webster Lake	Water Supply	Arsenic	LM012001	RO	Lake	
3	Webster Lake	Aquatic Life	Selenium	LM012001	RO	Lake	
	0014 er South Fork Solomon						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	South Fork Solomon River Near Woodston	Water Supply	Arsenic	SC737	RO	Watershed	2023
5	South Fork Solomon River Near Woodston	Aquatic Life	Dissolved Oxygen	SC737	RO	Watershed	2023
5	Carr Creek Near Cawker City	Aquatic Life	Total Phosphorus	SC669	OB, MC	Watershed	2023
5	South Fork Solomon River Near Osborne	Aquatic Life	Total Phosphorus	SC543	ОВ	Watershed	2023
5	Twin Creek Near Corinth	Aquatic Life	Total Phosphorus	SC668	ОВ	Watershed	2023
5	Carr Creek Near Cawker City	Aquatic Life	Total Suspended Solids	SC669	OB, MC	Watershed	2023
	,						

Solids

Biology

Biology

E. coli

E. coli

Dissolved Oxygen

Dissolved Oxygen

Eutrophication

Selenium

SC543

SC542

SC668

SC542

SC543

SC669

LM011901

LM011901

OB

RO

ОВ

OB

RO

OB, MC

OB, RO, RS

OB, RO, RS

Watershed

Watershed

Watershed

Watershed

Watershed

Watershed

Lake

Lake

Aquatic Life

Aquatic Life

Aquatic Life

Aquatic Life

Recreation

Recreation

Aquatic Life

Aquatic Life

Near Osborne

Near Osborne

Near Osborne Rooks Co. SFL

Near Osborne

Near Osborne Rooks Co. SFL

City

South Fork Solomon River

South Fork Solomon River

Twin Creek Near Corinth

South Fork Solomon River

South Fork Solomon River

Carr Creek Near Cawker

4a

4a

4a

4a

4a

4a

4a 4a Medium

Medium

Medium

Medium

Low

Low

Low

Medium

10260014			
Lower South	Fork	Solomo	

Lowe	r South Fork Solomon						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Covert Creek Near Osborne	Aquatic Life	Selenium	SC666	ОВ	Watershed	Low
4a	Kill Creek Near Bloomington	Aquatic Life	Selenium	SC665	ОВ	Watershed	Low
4a	South Fork Solomon River Near Osborne	Aquatic Life	Selenium	SC542	OB, RO, RS	Watershed	Low
4a	South Fork Solomon River Near Osborne	Aquatic Life	Selenium	SC543	ОВ	Watershed	Low
4a	South Fork Solomon River Near Woodston	Aquatic Life	Selenium	SC737	RO	Watershed	Low
4a	Twin Creek Near Corinth	Aquatic Life	Selenium	SC668	ОВ	Watershed	Low
4a	Carr Creek Near Cawker City	Water Supply	Sulfate	SC669	ОВ, МС	Watershed	Low
4a	Covert Creek Near Osborne	Water Supply	Sulfate	SC666	ОВ	Watershed	Low
4a	Kill Creek Near Bloomington	Water Supply	Sulfate	SC665	ОВ	Watershed	Low
4a	South Fork Solomon River Near Osborne	Water Supply	Sulfate	SC543	ОВ	Watershed	Low
4a	South Fork Solomon River Near Osborne	Water Supply	Sulfate	SC542	OB, RO, RS	Watershed	Low
4a	South Fork Solomon River Near Woodston	Water Supply	Sulfate	SC737	RO	Watershed	Low
4a	Twin Creek Near Corinth	Water Supply	Sulfate	SC668	ОВ	Watershed	Low
1026 Solon	0015 non River						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Creek Near Minneapolis	Water Supply	Arsenic	SC512	MC, OT, LC	Watershed	2023
5	Solomon River At Niles	Water Supply	Arsenic	SC266	CD, OT, SA	Watershed	2023
5	Limestone Creek Near Glen Elder	Aquatic Life	Atrazine	SC667	JW	Watershed	2023
5	Solomon River At Niles	Aquatic Life	Atrazine	SC266	CD, OT, SA	Watershed	2023
5	Solomon River At Niles	Aquatic Life	Biology	SC266	CD, OT, SA	Watershed	2023
5	Pipe Creek Near Minneapolis	Aquatic Life	Dissolved Oxygen	SC651	CD, OT, SA	Watershed	2023
5	Salt Creek Near Minneapolis	Aquatic Life	Dissolved Oxygen	SC512	MC, OT, LC	Watershed	2023
5	Jewell Co. SFL	Aquatic Life	Eutrophication	LM012801	JW	Lake	2023

SC511

SC511

SC667

SC512

LM012801

JW, CD, MC

JW, CD, MC

MC, OT, LC

JW

JW

Watershed

Watershed

Watershed

Watershed

Lake

Salt Creek Near

Minneapolis

Jewell Co. SFL

Elder

Solomon River Near Glasco

Solomon River Near Glasco

Limestone Creek Near Glen

Water Supply

Aquatic Life

Water Supply

Aquatic Life

Aquatic Life

Gross Alpha

Selenium

Siltation

Total Phosphorus

Total Phosphorus

5

5

5

5

5

2023

2023

2023

2023

2023

10260 Solon	0015 non River						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Solomon River At Niles	Aquatic Life	Total Phosphorus	SC266	CD, OT, SA	Watershed	2023
5	Solomon River Near Glasco	Aquatic Life	Total Phosphorus	SC511	JW, CD, MC	Watershed	2023
5	Salt Creek Near Minneapolis	Aquatic Life	Total Suspended Solids	SC512	MC, OT, LC	Watershed	2023
5	Solomon River Near Glasco	Aquatic Life	Total Suspended Solids	SC511	JW, CD, MC	Watershed	2023
4a	Ottawa Co. SFL	Recreation	Aquatic Plants	LM014101	ОТ	Lake	Medium
4a	Salt Creek Near Minneapolis	Water Supply	Chloride	SC512	MC, OT, LC	Watershed	Low
4a	Solomon River At Niles	Water Supply	Chloride	SC266	CD, OT, SA	Watershed	Low
4a	Solomon River Near Glasco	Water Supply	Chloride	SC511	JW, CD, MC	Watershed	Low
4a	Limestone Creek Near Glen Elder	Aquatic Life	Dissolved Oxygen	SC667	JW	Watershed	High
4a	Ottawa Co. SFL	Aquatic Life	Dissolved Oxygen	LM014101	ОТ	Lake	Medium
4a	Ottawa Co. SFL	Aquatic Life	Eutrophication	LM014101	ОТ	Lake	Medium
4a	Waconda Lake	Aquatic Life	Eutrophication	LM018001	OB, MC	Lake	Medium
4a	Limestone Creek Near Glen Elder	Aquatic Life	Selenium	SC667	JW	Watershed	Low
4a	Limestone Creek Near Glen Elder	Water Supply	Sulfate	SC667	JW	Watershed	Low
4a	Salt Creek Near Minneapolis	Water Supply	Sulfate	SC512	MC, OT, LC	Watershed	Low
4a	Solomon River At Niles	Water Supply	Sulfate	SC266	CD, OT, SA	Watershed	Low
4a	Solomon River Near Glasco	Water Supply	Sulfate	SC511	JW, CD, MC	Watershed	Low
4a	Waconda Lake	Water Supply	Sulfate	LM018001	OB, MC	Lake	Low
4a	Solomon River At Niles	Aquatic Life	Total Suspended Solids	SC266	CD, OT, SA	Watershed	Low
3	Solomon River at Beloit	Aquatic Life	Atrazine	PWS2012301	MC	Watershed	
		Upp	er Arkansas	River Basi	n		
10260 Lowe	0014 r South Fork Solomon						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Carr Creek Near Cawker City	Aquatic Life	Atrazine	SC669	OB, MC	Watershed	
11030 Midd	0001 le Arkansas-Lake McKii	nney					
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Hamilton Co. SFL	Aquatic Life	Dissolved Oxygen	LM016101	НМ	Lake	2023

Arkansas River At Coolidge

Water Supply

Fluoride

SC223

НМ

Watershed

5

2023

11030001	
Middle Arkansas-	Lake McKinney

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arkansas River Near Deerfield	Water Supply	Fluoride	SC598	KE, HM	Watershed	2023
5	Arkansas River At Coolidge	Water Supply	Gross Alpha	SC223	НМ	Watershed	2023
5	Arkansas River Near Deerfield	Water Supply	Gross Alpha	SC598	KE, HM	Watershed	2023
5	Arkansas River Near Deerfield	Aquatic Life	Total Suspended Solids	SC598	KE, HM	Watershed	2023
4a	Hamilton Co. SFL	Recreation	Aquatic Plants	LM016101	НМ	Lake	Low
4a	Arkansas River At Coolidge	Water Supply	Boron	SC223	НМ	Watershed	Medium
4a	Arkansas River Near Deerfield	Water Supply	Boron	SC598	KE, HM	Watershed	Medium
4a	Hamilton Co. SFL	Water Supply	Chloride	LM016101	HM	Lake	Low
4a	Hamilton W.A.	Water Supply	Chloride	LM016141	НМ	Lake	Low
4a	Hamilton W.A.	Aquatic Life	Dissolved Oxygen	LM016141	НМ	Lake	Low
4a	Hamilton Co. SFL	Aquatic Life	Eutrophication	LM016101	НМ	Lake	Low
4a	Hamilton W.A.	Aquatic Life	Eutrophication	LM016141	НМ	Lake	Low
4a	Arkansas River At Coolidge	Aquatic Life	Selenium	SC223	НМ	Watershed	High
4a	Arkansas River Near Deerfield	Aquatic Life	Selenium	SC598	KE, HM	Watershed	High
4a	Hamilton Co. SFL	Water Supply	Siltation	LM016101	НМ	Lake	Low
4a	Hamilton W.A.	Water Supply	Siltation	LM016141	НМ	Lake	Low
4a	Arkansas River At Coolidge	Water Supply	Sulfate	SC223	НМ	Watershed	Medium
4a	Arkansas River Near Deerfield	Water Supply	Sulfate	SC598	KE, HM	Watershed	Medium
4a	Hamilton Co. SFL	Water Supply	Sulfate	LM016101	НМ	Lake	Low
4a	Hamilton W.A.	Water Supply	Sulfate	LM016141	HM	Lake	Low
3	Beymer Lake	Water Supply	Fluoride	LM071001	JO	Lake	
3	Beymer Lake	Aquatic Life	Selenium	LM071001	JO	Lake	

11030003 Arkansas-Dodge City

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4c	Arkansas River At	Aquatic Life	Total Phosphorus	SC286	FI, KE	Watershed	Low
4c	Arkansas River At	Aquatic Life	Total Suspended Solids	SC286	FI, KE	Watershed	Low
4a	Arkansas River At	Water Supply	Boron	SC286	FI, KE	Watershed	Medium
4a	Lake Charles	Aquatic Life	Eutrophication	LM071101	FO	Lake	Low
4a	Arkansas River At	Recreation	Fecal Coli	SC286	FI, KE	Watershed	High
4a	Arkansas River At	Aquatic Life	рН	SC286	FI, KE	Watershed	Medium
4a	Arkansas River At	Aquatic Life	Selenium	SC286	FI, KE	Watershed	High

1103 Arkai	0003 nsas-Dodge City								
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority		
4a	Arkansas River At	Water Supply	Sulfate	SC286	FI, KE	Watershed	Medium		
	11030004 Arkansas-Pickerel								
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority		
5	Arkansas River Near Dundee	Aquatic Life	Atrazine	SC584	PN, ED, FO	Watershed	2023		
5	Arkansas River Near Great Bend	Aquatic Life	Atrazine	SC284	BT, SF	Watershed	2023		
5	Arkansas River Near Ford	Water Supply	Fluoride	SC594	GY, FO, HS	Watershed	2023		
5	Arkansas River Near Great Bend	Water Supply	Gross Alpha	SC284	BT, SF	Watershed	2023		
5	Arkansas River Near Dundee	Aquatic Life	Selenium	SC584	PN, ED, FO	Watershed	2023		
5	Arkansas River Near Ford	Aquatic Life	Selenium	SC594	GY, FO, HS	Watershed	2023		
5	Arkansas River Near Great Bend	Aquatic Life	Selenium	SC284	BT, SF	Watershed	2023		
5	Arkansas River Near Kinsley	Aquatic Life	Selenium	SC587	ED, FO	Watershed	2023		
5	Arkansas River Near Ford	Aquatic Life	Total Phosphorus	SC594	GY, FO, HS	Watershed	2023		
5	Arkansas River Near Great Bend	Aquatic Life	Total Phosphorus	SC284	BT, SF	Watershed	2023		
5	Mulberry Creek Near Ford	Aquatic Life	Total Suspended Solids	SC700	FO	Watershed	2023		
4a	Arkansas River Near Great Bend	Aquatic Life	Biology	SC284	BT, SF	Watershed	Medium		
4a	Mulberry Creek Near Ford	Aquatic Life	Dissolved Oxygen	SC700	FO	Watershed	Low		
4a	Arkansas River Near Dundee	Recreation	E. coli	SC584	PN, ED, FO	Watershed	High		
4a	Arkansas River Near Ford	Recreation	E. coli	SC594	GY, FO, HS	Watershed	High		
4a	Arkansas River Near Kinsley	Recreation	E. coli	SC587	ED, FO	Watershed	High		
4a	Arkansas River Near Great Bend	Recreation	Fecal Coli	SC284	BT, SF	Watershed	High		
4a	Arkansas River Near Kinsley	Water Supply	Fluoride	SC587	ED, FO	Watershed	Medium		
4a	Arkansas River Near Dundee	Water Supply	Sulfate	SC584	PN, ED, FO	Watershed	Medium		
4a	Arkansas River Near Ford	Water Supply	Sulfate	SC594	GY, FO, HS	Watershed	Medium		
4a	Arkansas River Near Great Bend	Water Supply	Sulfate	SC284	BT, SF	Watershed	Medium		
1103 Pawn									
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority		
5	Concannon SFL	Water Supply	Boron	LM053601	FI	Lake	2023		
5	Concannon SFL	Water Supply	Fluoride	LM053601	FI	Lake	2023		

Pawn							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Concannon SFL	Water Supply	Sulfate	LM053601	FI	Lake	2023
5	Pawnee River Near Burdett	Aquatic Life	Total Phosphorus	SC586	NX, FI, HG	Watershed	2023
5	Pawnee River Near Larned	Aquatic Life	Total Phosphorus	SC585	PN	Watershed	2023
5	Pawnee River Near Burdett	Aquatic Life	Total Suspended Solids	SC586	NX, FI, HG	Watershed	2023
4a	Pawnee River Near Burdett	Aquatic Life	Atrazine	SC586	NX, FI, HG	Watershed	Medium
4a	Pawnee River Near Larned	Aquatic Life	Atrazine	SC585	PN	Watershed	Medium
4a	Pawnee River Near Burdett	Aquatic Life	Copper	SC586	NX, FI, HG	Watershed	Low
4a	Pawnee River Near Larned	Aquatic Life	Copper	SC585	PN	Watershed	Low
4a	Pawnee River Near Burdett	Aquatic Life	Dissolved Oxygen	SC586	NX, FI, HG	Watershed	Low
4a	Pawnee River Near Larned	Aquatic Life	Dissolved Oxygen	SC585	PN	Watershed	Low
4a	Pawnee River Near Burdett	Recreation	E. coli	SC586	NX, FI, HG	Watershed	High
4a	Concannon SFL	Aquatic Life	Eutrophication	LM053601	FI	Lake	Low
4a	Pawnee River Near Larned	Recreation	Fecal Coli	SC585	PN	Watershed	High
4a	Pawnee River Near Burdett	Aquatic Life	Lead	SC586	NX, FI, HG	Watershed	Low
4a	Pawnee River Near Larned	Aquatic Life	Lead	SC585	PN	Watershed	Low
3	Concannon SFL	Water Supply	Arsenic	LM053601	FI	Lake	
1103 Buck							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Hain SFL	Aquatic Life	Eutrophication	LM070901	FO	Lake	2023
5	Hodgeman Co. SFL/W.A.	Aquatic Life	Eutrophication	LM074201	HG	Lake	2023
5	Horsethief Canyon Lake	Aquatic Life	Eutrophication	LM055001	HG	Lake	2023
4a	Jetmore Lake	Recreation	Aquatic Plants	LM073901	HG	Lake	Low
4a	Ford Co. Lake	Aquatic Life	Dissolved Oxygen	LM070801	FO	Lake	High
4a	Ford Co. Lake	Aquatic Life	Eutrophication	LM070801	FO	Lake	High
4a	Jetmore Lake	Aquatic Life	Eutrophication	LM073901	HG	Lake	Low
4a	Ford Co. Lake	Aquatic Life	рН	LM070801	FO	Lake	High
3	Boy Scout Lake	Aquatic Life	Eutrophication	LM070601	HG	Lake	
1103 Uppe	0007 or Walnut Creek						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Walnut Creek At Ness City	Water Supply	Arsenic	SC595	SC, LE, NS	Watershed	2023
4a	Walnut Creek At Ness City	Aquatic Life	Selenium	SC595	SC, LE, NS	Watershed	Low
4a	Walnut Creek At Ness City	Water Supply	Sulfate	SC595	SC, LE, NS	Watershed	Low

11030005

1103 Lowe	0008 r Walnut Creek						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Walnut Creek Near Alexander	Water Supply	Arsenic	SC596	LE, NS	Watershed	2023
5	Walnut Creek Near Heizer	Water Supply	Arsenic	SC597	RH, BT	Watershed	2023
5	Goodman SFL	Aquatic Life	Eutrophication	LM052401	NS	Lake	2023
5	Goodman SFL	Water Supply	Sulfate	LM052401	NS	Lake	2023
5	Walnut Creek Near Heizer	Aquatic Life	Total Phosphorus	SC597	RH, BT	Watershed	2023
5	Walnut Creek Near Heizer	Aquatic Life	Total Suspended Solids	SC597	RH, BT	Watershed	2023
4a	Walnut Creek Near Alexander	Aquatic Life	Dissolved Oxygen	SC596	LE, NS	Watershed	Low
4a	Walnut Creek Near Heizer	Aquatic Life	Dissolved Oxygen	SC597	RH, BT	Watershed	Low
4a	Memorial Park Lake	Aquatic Life	Eutrophication	LM071501	ВТ	Lake	Low
4a	Stone Lake	Aquatic Life	Eutrophication	LM074001	ВТ	Lake	Low
4a	Walnut Creek Near Alexander	Aquatic Life	Selenium	SC596	LE, NS	Watershed	Low
4a	Walnut Creek Near Heizer	Aquatic Life	Selenium	SC597	RH, BT	Watershed	Low
4a	Walnut Creek Near Alexander	Water Supply	Sulfate	SC596	LE, NS	Watershed	Low
4a	Walnut Creek Near Heizer	Water Supply	Sulfate	SC597	RH, BT	Watershed	Low
3	Walnut Creek Near Heizer	Aquatic Life	Atrazine	SC597	RH, BT	Watershed	
3	Walnut Creek Near Heizer	Recreation	E. coli	SC597	RH, BT	Watershed	
3	Goodman SFL	Aquatic Life	Selenium	LM052401	NS	Lake	
		Upp	er Republicar	n River Ba	sin		
1025(Arika							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arikaree River Near Haigler, Nebraska	Aquatic Life	Dissolved Oxygen	SC226	CN	Watershed	2023
4a	Arikaree River Near Haigler, Nebraska	Water Supply	Fluoride	SC226	CN	Watershed	Low
4a	Arikaree River Near Haigler, Nebraska	Aquatic Life	Selenium	SC226	CN	Watershed	Low
3	Arikaree River Near Haigler, Nebraska	Recreation	E. coli	SC226	CN	Watershed	
1025(South	0003 n Fork Republican						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	South Fork Republican	Water Supply	Gross Alpha	SC225	CN	Watershed	2023

River Near St. Francis

	10250003 South Fork Republican							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority	
4a	South Fork Republican River Near Benkelman, Nebraska	Water Supply	Fluoride	SC227	CN	Watershed	Low	
4a	South Fork Republican River Near St. Francis	Water Supply	Fluoride	SC225	CN	Watershed	Low	
3	South Fork Republican River Near St. Francis	Aquatic Life	Biology	SC225	CN	Watershed		
3	Saint Francis W.A.	Aquatic Life	Copper	LM071401	CN	Lake		
3	Saint Francis W.A.	Aquatic Life	Eutrophication	LM071401	CN	Lake		
10250 Lowe	0011 r Sappa							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority	
5	Sappa Creek Near Beaver City, Nebraska	Water Supply	Arsenic	SC229	RA, DC, NT, SH, TH	Watershed	2023	
5	Sappa Creek Near Beaver City, Nebraska	Aquatic Life	Dissolved Oxygen	SC229	RA, DC, NT, SH, TH	Watershed	2023	
5	Sappa Creek Near Beaver City, Nebraska	Aquatic Life	Selenium	SC229	RA, DC, NT, SH, TH	Watershed	2023	
5	Sappa Creek Near Beaver City, Nebraska	Aquatic Life	Total Phosphorus	SC229	RA, DC, NT, SH, TH	Watershed	2023	
	10250012 South Fork Beaver							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority	
3	Atwood Township Lake	Aquatic Life	Eutrophication	LM071201	RA	Lake		
3	Atwood Township Lake	Water Supply	Fluoride	LM071201	RA	Lake		
3	Atwood Township Lake	Water Supply	Sulfate	LM071201	RA	Lake		
10250 Beave	0014 er Creek							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority	
4a	Beaver Creek At Cedar Bluffs	Aquatic Life	Dissolved Oxygen	SC228	CN, RA, DC, SH	Watershed	Low	
4a	Beaver Creek At Cedar Bluffs	Water Supply	Fluoride	SC228	CN, RA, DC, SH	Watershed	Low	
3	Beaver Creek At Cedar Bluffs	Aquatic Life	Total Phosphorus	SC228	CN, RA, DC, SH	Watershed		
10250 Prairi	0015 e Dog Creek							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority	
5	Prairie Dog Creek Near Dellvale	Water Supply	Arsenic	SC549	DC, TH	Watershed	2023	
5	Prairie Dog Creek Near Woodruff	Water Supply	Arsenic	SC230	PL, NT	Watershed	2023	

10250015 Prairie Dog Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Prairie Dog Creek Near Dellvale	Aquatic Life	Dissolved Oxygen	SC549	DC, TH	Watershed	2023
5	Prairie Dog Creek Near Woodruff	Aquatic Life	Total Phosphorus	SC230	PL, NT	Watershed	2023
4a	Norton Lake (Sebelius Lake)	Aquatic Life	Dissolved Oxygen	LM010001	NT	Lake	Low
4a	Prairie Dog Creek Near Woodruff	Aquatic Life	Dissolved Oxygen	SC230	PL, NT	Watershed	High
4a	Colby City Lake	Aquatic Life	Eutrophication	LM071301	TH	Lake	Low
4a	Norton Lake (Sebelius Lake)	Aquatic Life	Eutrophication	LM010001	NT	Lake	High
4a	Norton Lake (Sebelius Lake)	Aquatic Life	рН	LM010001	NT	Lake	Low
4a	Prairie Dog Creek Near Dellvale	Aquatic Life	Total Phosphorus	SC549	DC, TH	Watershed	Low
3	Colby City Lake	Aquatic Life	Lead	LM071301	TH	Lake	

Verdigris River Basin

11070101 Upper Verdigris

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Verdigris River Near Virgil	Recreation	E. coli	SC289	LY, CS, GW	Watershed	2023
5	Toronto Lake	Aquatic Life	Lead	LM024001	GW, WO	Lake	2023
5	Woodson W.A.	Water Supply	Siltation	LM011841	WO	Lake	2023
4a	Chetopa Creek Near Neodesha	Aquatic Life	Dissolved Oxygen	SC696	WL, NO	Watershed	Medium
4a	Toronto Lake	Aquatic Life	Dissolved Oxygen	LM024001	GW, WO	Lake	High
4a	Wilson Co. SFL	Aquatic Life	Dissolved Oxygen	LM015101	WL	Lake	Medium
4a	Woodson W.A.	Aquatic Life	Dissolved Oxygen	LM011841	WO	Lake	Medium
4a	Eureka Lake	Aquatic Life	Eutrophication	LM040201	GW	Lake	Medium
4a	Toronto Lake	Aquatic Life	Eutrophication	LM024001	GW, WO	Lake	High
4a	Wilson Co. SFL	Aquatic Life	Eutrophication	LM015101	WL	Lake	Medium
4a	Woodson W.A.	Aquatic Life	Eutrophication	LM011841	WO	Lake	Medium
4a	Chetopa Creek Near Neodesha	Recreation	Fecal Coli	SC696	WL, NO	Watershed	Medium
4a	Woodson W.A.	Recreation	Fecal Coli	LM011841	WO	Lake	Medium
4a	Eureka Lake	Water Supply	Siltation	LM040201	GW	Lake	Medium
4a	Toronto Lake	Water Supply	Siltation	LM024001	GW, WO	Lake	High
44070403							

11070102 Fall River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Fall River Lake	Aquatic Life	Dissolved Oxygen	LM023001	GW	Lake	High

	11070102 Fall River						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Fall River Lake	Aquatic Life	Eutrophication	LM023001	GW	Lake	
4a	Fall River Near Climax	Recreation	Fecal Coli	SC575	GW, BU	Watershed	High
4a	Fall River Lake	Water Supply	Siltation	LM023001	GW	Lake	High
3	Otter Creek Near Climax	Aquatic Life	Biology	SC574	GW	Watershed	
11070 Midd	0103 le Verdigris						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Verdigris River Near Sycamore	Aquatic Life	Biology	SC105	WL, MG	Watershed	2023
5	Verdigris River Near Coffeyville	Aquatic Life	Selenium	SC215	MG	Watershed	2023
4a	Verdigris River Near Coffeyville	Aquatic Life	Biology	SC215	MG	Watershed	Medium
4a	Verdigris River Near Independence	Aquatic Life	Biology	SC563	MG	Watershed	Medium
4a	Big Hill Creek Near Avian	Aquatic Life	Dissolved Oxygen	SC607	MG, LB	Watershed	Medium
4a	Montgomery Co. SFL	Aquatic Life	Dissolved Oxygen	LM010701	MG	Lake	Medium
4a	Onion Creek Near Coffeyville	Aquatic Life	Dissolved Oxygen	SC608	MG	Watershed	Medium
4a	Pumpkin Creek Near Coffeyville	Aquatic Life	Dissolved Oxygen	SC606	LB	Watershed	Medium
4a	Big Hill Creek Near Avian	Recreation	E. coli	SC607	MG, LB	Watershed	Medium
4a	Big Hill Lake	Aquatic Life	Eutrophication	LM031001	NO, LB	Lake	High
4a	La Claire Lake	Aquatic Life	Eutrophication	LM072901	MG	Lake	Low
4a	Lake Tanko (Cherryvale City Lake)	Aquatic Life	Eutrophication	LM071601	MG	Lake	Low
4a	Montgomery Co. SFL	Aquatic Life	Eutrophication	LM010701	MG	Lake	Medium
4a	Verdigris River Near Coffeyville	Recreation	Fecal Coli	SC215	MG	Watershed	Medium
4a	Verdigris River Near Independence	Recreation	Fecal Coli	SC563	MG	Watershed	Medium
4a	Montgomery Co. SFL	Aquatic Life	рН	LM010701	MG	Lake	Medium
3	Drum Creek Near Independence	Recreation	E. coli	SC699	NO, MG	Watershed	
3	Pumpkin Creek Near Coffeyville	Recreation	E. coli	SC606	LB	Watershed	
3	Verdigris River Near Sycamore	Recreation	E. coli	SC105	WL, MG	Watershed	
1107							
Elk Ri							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Moline Reservoir	Aquatic Life	Eutrophication	LM071901	EK	Lake	2023

11070104 Elk River							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Polk Daniels Lake (Elk Co. SFL)	Aquatic Life	Eutrophication	LM012701	EK	Lake	2023
4a	Elk City Lake	Aquatic Life	Eutrophication	LM025001	EK, MG, CQ	Lake	Medium
4a	Elk River Near Howard	Recreation	Fecal Coli	SC693	EK, MG	Watershed	Medium
4a	Elk City Lake	Water Supply	Siltation	LM025001	EK, MG, CQ	Lake	Medium
11070 Cane	0106 y River						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Middle Caney Creek Near Sedan	Aquatic Life	Dissolved Oxygen	SC694	CQ	Watershed	2023
5	Sedan City North Lake	Aquatic Life	Eutrophication	LM048601	CQ	Lake	2023
5	Little Caney River Near Caney	Water Supply	Nitrate	SC572	MG, CQ	Watershed	2023
			Walnut Rive	r Basin			
11030 Uppe	0017 r Walnut River						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Whitewater River At Towanda	Water Supply	Arsenic	SC038	HV, BU, SG	Watershed	2023
5	Whitewater River At Towanda	Aquatic Life	Biology	SC038	HV, BU, SG	Watershed	2023
5	Walnut River Near El Dorado	Aquatic Life	Selenium	SC279	BU	Watershed	2023
4a	Augusta Santa Fe Lake	Aquatic Life	Dissolved Oxygen	LM041601	BU	Lake	Medium
4a	Walnut River Near El Dorado	Aquatic Life	Dissolved Oxygen	SC279	BU	Watershed	High
4a	Walnut River Near El Dorado	Recreation	E. coli	SC279	BU	Watershed	High
4a	Whitewater River At Towanda	Recreation	E. coli	SC038	HV, BU, SG	Watershed	High
4a	Augusta City Lake	Aquatic Life	Eutrophication	LM040001	BU	Lake	High
4a	Augusta Santa Fe Lake	Aquatic Life	Eutrophication	LM041601	BU	Lake	Medium
4a	El Dorado Lake	Aquatic Life	Eutrophication	LM033001	BU	Lake	High
4a	Harvey Co. East Lake	Aquatic Life	Eutrophication	LM052001	HV	Lake	Medium
4a	Augusta Santa Fe Lake	Water Supply	Siltation	LM041601	BU	Lake	Medium
4a	El Dorado Lake	Water Supply	Siltation	LM033001	BU	Lake	High
4a	Walnut River Near El Dorado	Aquatic Life	Total Phosphorus	SC279	BU	Watershed	High
4a	Whitewater River At Towanda	Aquatic Life	Total Phosphorus	SC038	HV, BU, SG	Watershed	High
3	Harvey Co. East Lake	Aquatic Life	Atrazine	LM052001	HV	Lake	

11030017 Upper Walnut River							
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Walnut River Near El Dorado	Aquatic Life	Biology	SC279	BU	Watershed	
1103							
Lowe	er Walnut River						
Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Eight Mile Creek Near Douglas	Aquatic Life	Atrazine	SC704	BU	Watershed	2023
4a	Walnut River At Gordon	Aquatic Life	Biology	SC106	BU	Watershed	Medium
4a	Walnut River Near Hackney	Aquatic Life	Biology	SC532	BU, CL	Watershed	Medium
4a	Eight Mile Creek Near Douglas	Aquatic Life	Dissolved Oxygen	SC704	BU	Watershed	High
4a	Little Walnut River Near Douglas	Recreation	E. coli	SC655	BU	Watershed	High
4a	Rock Creek Near Rock	Recreation	E. coli	SC654	BU, CL	Watershed	High
4a	Butler Co. SFL	Aquatic Life	Eutrophication	LM049401	BU	Lake	Medium
4a	Winfield City Lake	Aquatic Life	Eutrophication	LM050801	CL	Lake	High
4a	Winfield Park Lagoon	Aquatic Life	Eutrophication	LM072301	CL	Lake	Low
4a	Eight Mile Creek Near Douglas	Water Supply	Sulfate	SC704	BU	Watershed	Low
4a	Four Mile Creek Near Gordon	Water Supply	Sulfate	SC744	BU, SG	Watershed	Low
4a	Walnut River At Gordon	Water Supply	Sulfate	SC106	BU	Watershed	Low
4a	Eight Mile Creek Near Douglas	Aquatic Life	Total Phosphorus	SC704	BU	Watershed	High
4a	Four Mile Creek Near Gordon	Aquatic Life	Total Phosphorus	SC744	BU, SG	Watershed	High
4a	Walnut River At Gordon	Aquatic Life	Total Phosphorus	SC106	BU	Watershed	High
3	Eight Mile Creek Near Douglas	Recreation	E. coli	SC704	BU	Watershed	
3	Timber Creek Near Winfield	Recreation	E. coli	SC653	CL	Watershed	
3	Walnut River Near Hackney	Recreation	E. coli	SC532	BU, CL	Watershed	

KANSAS SURFACE WATER REGISTER MAPS

An accompanying document to the Kansas Surface Water Register, December 15, 2013

Prepared by:

Kansas Department of Health and Environment
Division of Environment
Bureau of Water
Curtis State Office Building
Topeka, Kansas 66612

INTRODUCTION

This is an accompanying document to the Kansas Surface Water Register, December 15, 2013 that contains the maps of classified surface waters in the State of Kansas.

The maps of Kansas streams and lakes were prepared using a Geographic Information System (GIS), utilizing the National Hydrology Dataset (NHD). A subset of the NHD was selected to represent the Kansas Surface Water Register. In addition, errors in the NHD required some modification, which included stream renaming and the addition of new stream segments.

The Kansas Surface Water Register Maps is composed of one set of maps, which include the streams, lakes, and wildlife areas.

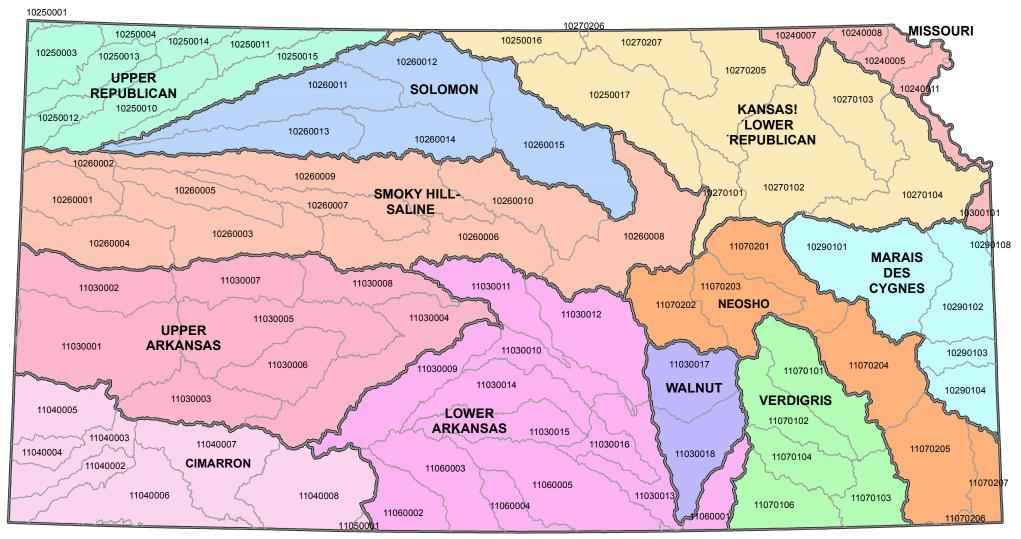
Each page depicts one or more Hydrologic Unit Code (HUC 8), depending on the HUC size and/or location. The map section starts with a reference map and a text version of the HUCS. The table and the maps are hyperlinked in the electronic copy. The segment numbers for the streams are indicated and the segments are depicted in varying colors. Lake and wildlife areas are polygons and are labeled with their names. The maps are grouped alphabetically and then numerically by HUC 8.

1

BASIN HYDROLOGIC UNIT CODE (HUC)	PAGE NUMBER
CIMARRON RIVER	
SUBBASIN: UPPER CIMARRON (HUC 11040002)	Page 5
SUBBASIN: NORTH FORK CIMARRON (HUC 11040003)	Page 5
SUBBASIN: UPPER CIMARRON-LIBERAL (11040006)	Page 6
SUBBASIN: CROOKED CREEK (HUC 11040007)	Page 6
SUBBASIN: UPPER CIMARRON-BLUFF (HUC 11040008)	Page 7
SUBBASIN: LOWER CIMARRON-EAGLE CHIEF (HUC 11050001)	Page 7
KANSAS/LOWER REPUBLICAN RIVER	_
SUBBASIN: MIDDLE REPUBLICAN (HUC 10250016)	Page 8
SUBBASIN: LOWER REPUBLICAN (HUC 1025 0017)	Page 9
SUBBASIN: UPPER KANSAS (HUC 10270101)	Page 10
SUBBASIN: MIDDLE KANSAS (HUC 10270102)	Page 11
SUBBASIN: DELAWARE (HUC 10270103)	Page 12
SUBBASIN: LOWER KANSAS (HUC 10270104)	Page 13
SUBBASIN: LOWER BIG BLUE (HUC 10270205)	Page 14
SUBBASIN: UPPER LITTLE BLUE (HUC 10270206)	Page 15
SUBBASIN: LOWER LITTLE BLUE (HUC 10270207)	Page 15
LOWER ARKANSAS RIVER	
SUBBASIN: RATTLESNAKE (HUC 11030009)	Page 16
SUBBASIN: GAR-PEACE (HUC11030010)	Page 17
SUBBASIN: COW (HUC 11030011)	Page 18
SUBBASIN: LITTLE ARKANSAS (HUC 11030012)	Page 19
SUBBASIN: MIDDLE ARKANSAS-SLATE (HUC 11030013)	Page 20
SUBBASIN: NORTH FORK NINNESCAH (HUC 11030014)	Page 21
SUBBASIN: SOUTH FORK NINNESCAH (HUC 11030015)	Page 22
SUBBASIN: NINNESCAH (HUC 11030016)	Page 23
SUBBASIN: KAW LAKE (HUC 11060001)	Page 24
SUBBASIN: UPPER SALT FORK (HUC 11060002)	Page 25
SUBBASIN: MEDICINE LODGE (HUC 11060003)	Page 26
SUBBASIN: LOWER SALT FORK (HUC 11060004)	Page 27
SUBBASIN: CHIKASKIA (HUC 11060005)	Page 28
MARAIS DES CYGNES	C
SUBBASIN: UPPER MARAIS DES CYGNES (HUC 10290101)	Page 29
SUBBASIN: LOWER MARAIS DES CYGNES (HUC 10290102)	Page 30
SUBBASIN: LITTLE OSAGE (HUC 10290103)	Page 31
SUBBASIN: MARMATON (HUC 10290104)	Page 32
SUBBASIN: SOUTH GRAND (HUC 10290108)	Page 30
MISSOURI RIVER	
SUBBASIN: TARKIO-WOLF (HUC 10240005)	Page 33
SUBBASIN: SOUTH FORK BIG NEMAHA (HUC 10240007)	Page 34
SUBBASIN: BIG NEMAHA (HUC 10240008)	Page 35
SUBBASIN: INDEPENDENCE-SUGAR (HUC 10240011)	Page 36
SUBBASIN: LOWER MISSOURI-CROOKED (HUC 10300101)	Page 37
NEOSHO RIVER	-
SUBBASIN: NEOSHO HEADWATERS (HUC 11070201)	Page 38
SUBBASIN: UPPER COTTONWOOD (HUC 11070202)	Page 39
SUBBASIN: LOWER COTTONWOOD (HUC 11070203)	Page 40
SUBBASIN: UPPER NEOSHO (HUC 11070204)	Page 41

BASIN NEOGUO P	HYDROLOGIC UNIT CODE (HUC)	PAGE NUMBER
NEOSHO R		Do ao 42
	SUBBASIN: MIDDLE NEOSHO (HUC 11070205)	Page 42 Page 43
	SUBBASIN: LAKE O' THE CHEROKEES (HUC 11070206) SUBBASIN: SPRING (HUC 11070207)	Page 43
SMOKA HII	LL-SALINE RIVER	Page 43
SWOK1 III	SUBBASIN: SMOKY HILL HEADWATERS (HUC 10260001)	Page 44
	SUBBASIN: NORTH FORK SMOKY HILL (HUC 10260001)	Page 45
	SUBBASIN: UPPER SMOKY HILL (HUC 10260003)	Page 46
	SUBBASIN: LADDER (HUC 10260004)	Page 47
	SUBBASIN: HACKBERRY (HUC 10260005)	Page 48
	SUBBASIN: MIDDLE SMOKY HILL (HUC 10260006)	Page 49
	SUBBASIN: BIG (HUC 10260007)	Page 50
	SUBBASIN: LOWER SMOKY HILL (HUC 10260008)	Page 51
	SUBBASIN: UPPER SALINE (HUC 10260009)	Page 52
	SUBBASIN: LOWER SALINE (HUC 10260010)	Page 53
SOLOMON		1 age 33
SOLOMON	SUBBASIN: UPPER NORTH FORK SOLOMON (HUC 10260011)	Page 54
	SUBBASIN: LOWER NORTH FORK SOLOMON (HUC 10260011)	Page 55
	SUBBASIN: UPPER SOUTH FORK SOLOMON (HUC 10260012)	Page 56
	SUBBASIN: LOWER SOUTH FORK SOLOMON (HUC 10260014)	Page 57
	SUBBASIN: SOLOMON RIVER (HUC 10260015)	Page 58
LIDDED ARK	ANSAS RIVER	1 age 36
OTTER ARE	SUBBASIN: MIDDLE ARKANSAS-LAKE MCKINNEY (HUC 11030001)	Page 59
	SUBBASIN: WHITEWOMAN (HUC 11030002)	Page 60
	SUBBASIN: ARKANSAS-DODGE CITY (HUC 11030003)	Page 61
	SUBBASIN: ARKANSAS-PICKEREL (HUC 11030004)	Page 62
	SUBBASIN: PAWNEE (HUC 11030005)	Page 63
	SUBBASIN: BUCKNER (HUC 11030006)	Page 64
	SUBBASIN: UPPER WALNUT CREEK (HUC 11030007)	Page 65
	SUBBASIN: LOWER WALNUT CREEK (HUC 11030008)	Page 66
UPPER REP	UBLICAN RIVER	1 450 00
CITERIE	SUBBASIN: ARIKAREE (HUC 10250001)	Page 67
	SUBBASIN: NORTH FORK REPUBLICAN (HUC 10250002)	Page 67
	SUBBASIN: SOUTH FORK REPUBLICAN (HUC 10250003)	Page 67
	SUBBASIN: UPPER REPUBLICAN (HUC 10250004)	Page 67
	SUBBASIN: UPPER SAPPA (HUC 10250010)	Page 68
	SUBBASIN: LOWER SAPPA (HUC 10250011)	Page 69
	SUBBASIN: SOUTH FORK BEAVER (HUC 10250012)	Page 70
	SUBBASIN: LITTLE BEAVER (HUC 10250013)	Page 67
	SUBBASIN: BEAVER (HUC 10250014)	Page 71
	SUBBASIN: PRAIRIE DOG (HUC 10250015)	Page 72
	SUBBASIN:HARLAN COUNTY RESERVOIR (HUC 10250009)	Page 72
VERDIGRIS		
	SUBBASIN: UPPER VERDIGRIS (HUC 11070101)	Page 73
	SUBBASIN: FALL (HUC 11070102)	Page 74
	SUBBASIN: MIDDLE VERDIGRIS (HUC 11070103)	Page 75
	SUBBASIN: ELK (HUC 11070104)	Page 76
	SUBBASIN: CANEY (HUC 11070106)	Page 77
WALNUT R	IVER	
	SUBBASIN: UPPER WALNUT RIVER (HUC 11030017)	Page 78
	SUBBASIN: LOWER WALNUT RIVER (HUC 11030018)	Page 79

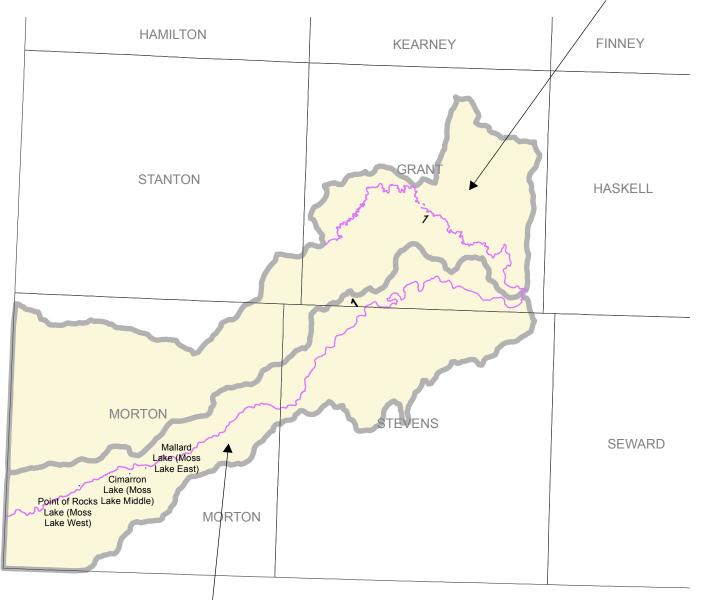
Kansas Surface Water Register Maps



National Hydrography Dataset (HUC), USGS 2012 Kansas Surface Water Register, 2013 HUC8 Boundaries, USGS 2004

CIMARRON RIVER

SUBBASIN: NORTH FORK CIMARRON (HUC 11040003)



SUBBASIN: UPPER CIMARRON (HUC 11040002)

National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, 2013 HUC 8 boundaries, USGS 2004

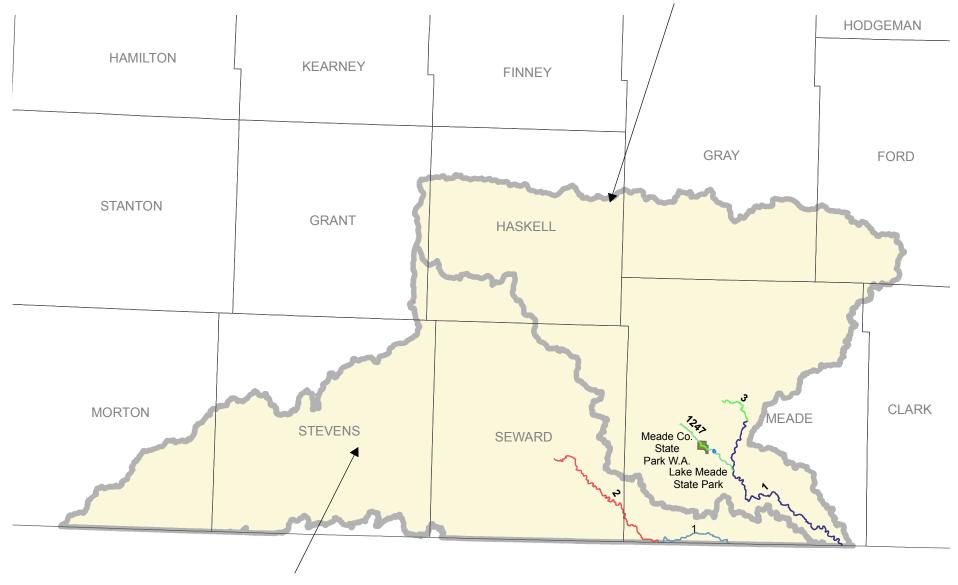
KDHE/BOW. 2015





CIMARRON RIVER BASIN

SUBBASIN: CROOKED CREEK (HUC11040007)

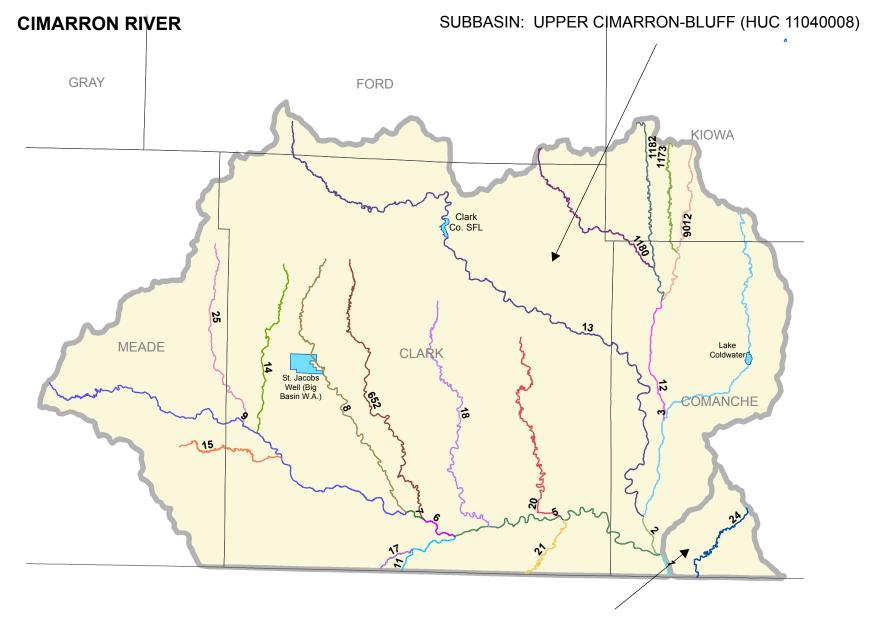


SUBBASIN: UPPER CIMARRON-LIBERAL (HUC 11040006)

National Hydrography Dataset (NHD),USGS 2012
Kansas Surface Water Register, KDHE 2013
HUC 8 boundaries,USDA/NRCS/USGS 2004

0 3.25 6.5 13 19.5 26

KDHE. BOW. 2015



SUBBASIN: LOWER CIMARRON-EAGLE CHIEF (HUC 11050001)

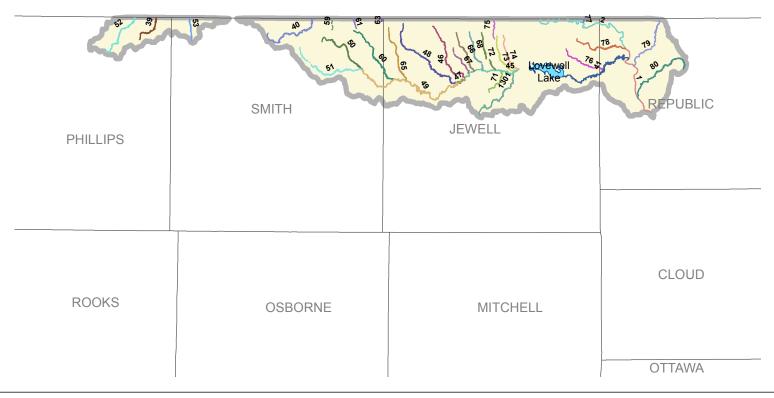
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register,KDHE 2013 HUC 8 boundaries, USGS 2004

KDHE/BOW. 2015





KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: MIDDLE REPUBLICAN (HUC 10250016)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015

0 4.25 8.5 17 25.5 34 Miles





KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: LOWER REPUBLICAN (HUC 10250017)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015

NRCS/USGS 2004 0 4 8 16 24 32 Miles





KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: UPPER KANSAS (HUC 10270101)



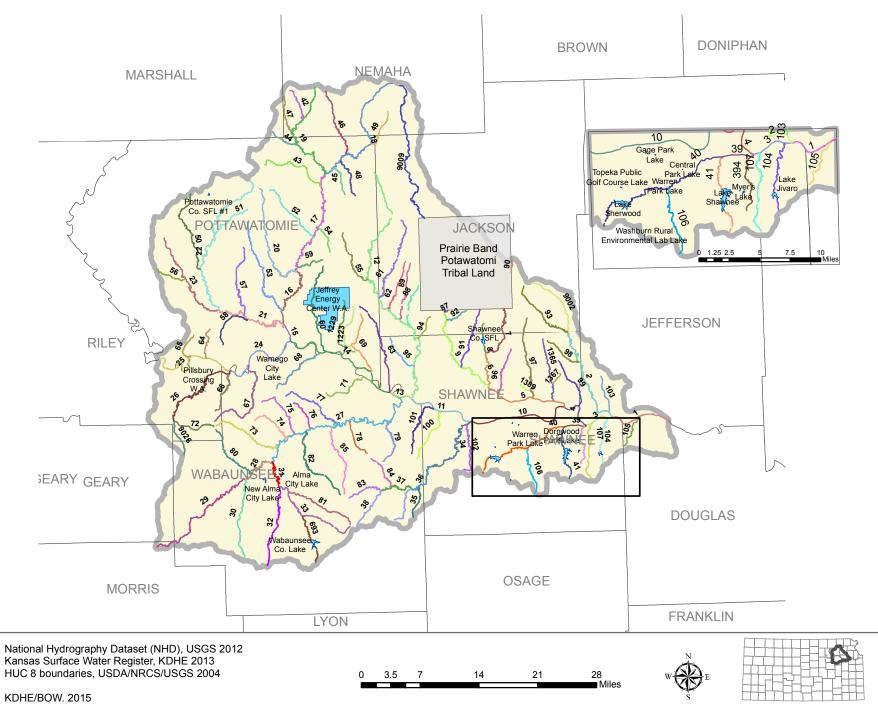
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015

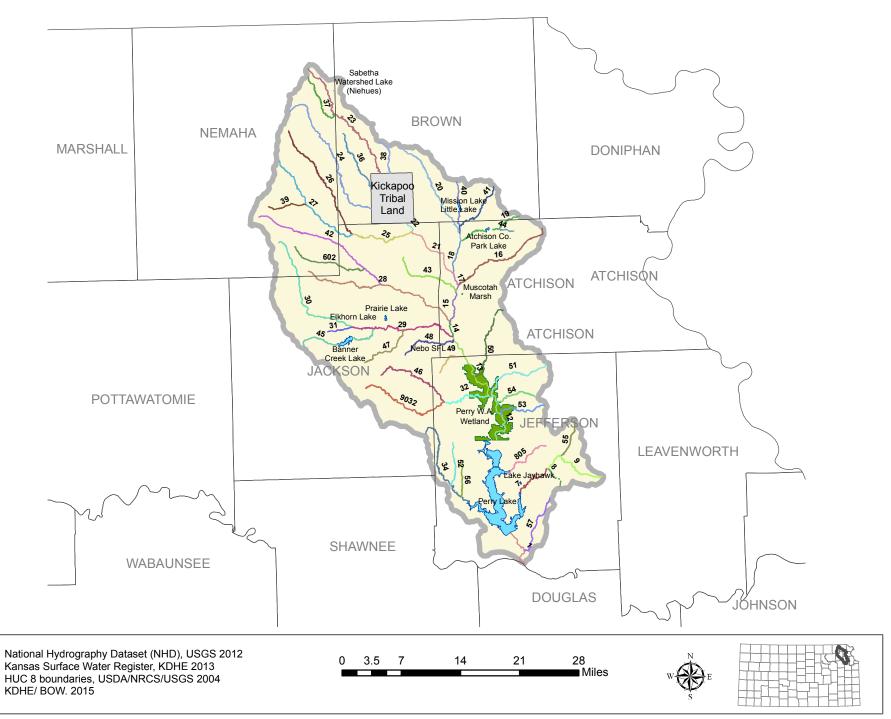




KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: MIDDLE KANSAS (HUC 10270102)



KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: DELAWARE (HUC 10270103)



KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: LOWER KANSAS (HUC 10270104) 55 1175 NEMAHA **WYANDOTTE** North Park Lake ATCHISON 373 Lake Quivera 406 383 Shawnee Mission Lake Lenexa Otty Lake 39 Rose's Lake JOHNSON **JACKSON** Manaffie Farmstead Lake Olathe Waterworks Lakes 452 New Olathe Lake Frisch Lake ardner City Lake Cedar Lake 0 1.75 3.5 **JEFFERSON** EAVENWORTH SHAWNEE Sunflower Park Lake **₩ JOHNSON** Mary's Lake 1 OUGLAS OSAGE West Lake Overbrook Lake Overbrook Lake National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

16.5

11

0 2.75 5.5

KDHE/BOW. 2015

22

Miles

KANSAS-LOWER REPUBLICAN RIVER BASIN SUBBASIN: LOWER BIG BLUE (HUC 10270205)

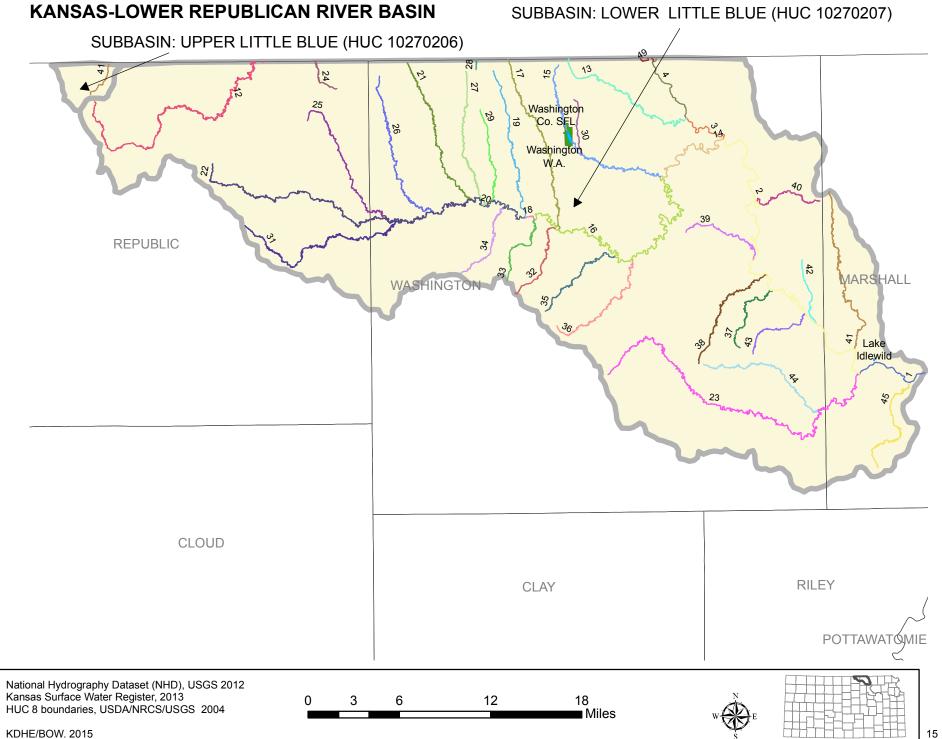


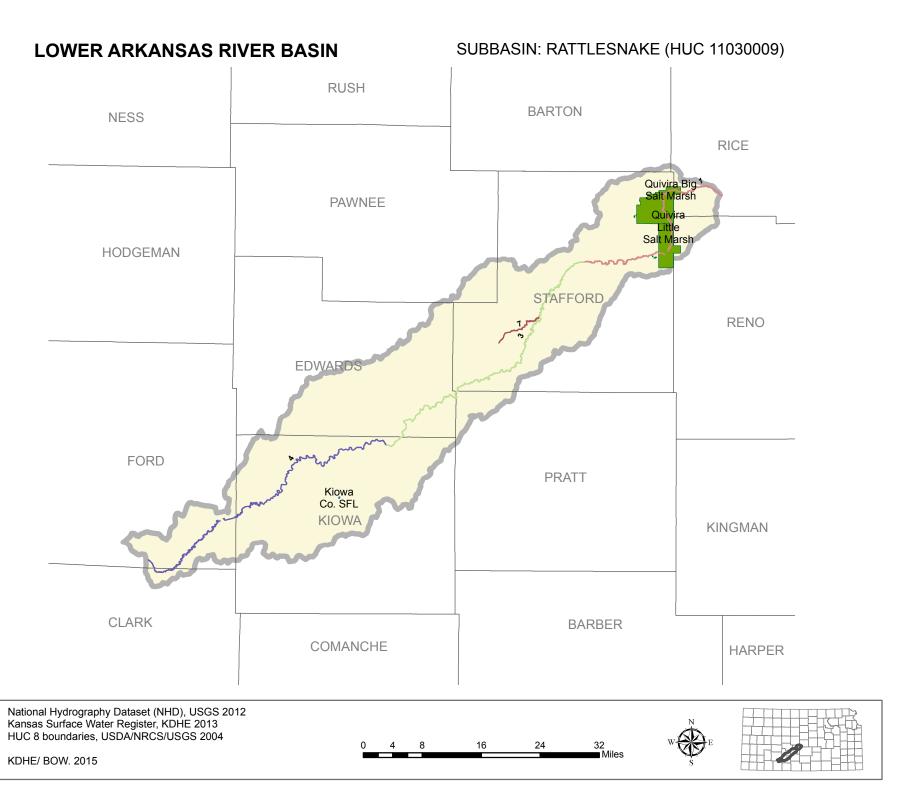
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

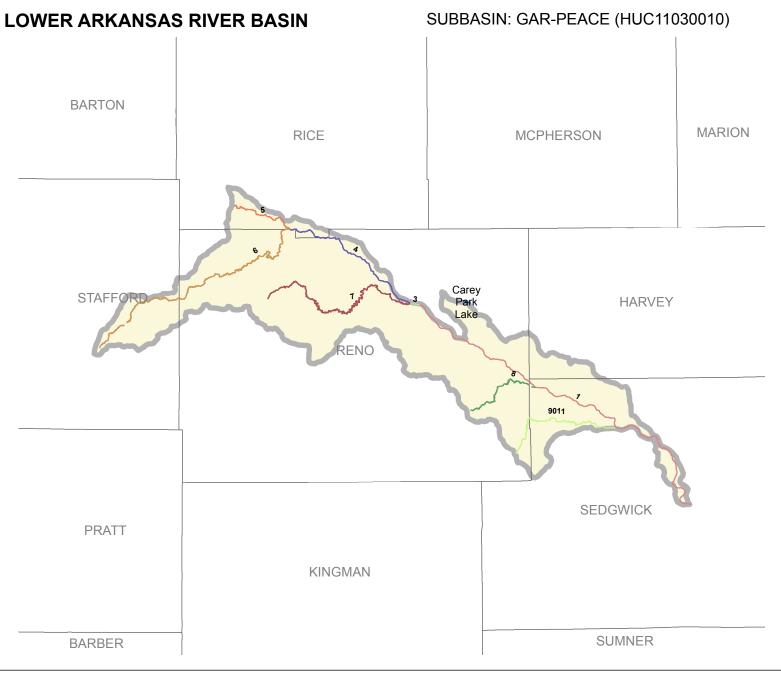
KDHE/BOW. 2015











National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004 KDHE/ BOW. 2015







SUBBASIN: COW (HUC 11030011) **LOWER ARKANSAS RIVER BASIN** RUSSELL **ELLIS** SALINE ELLSWORTH RUSH Cheyenne **MCPHERSON** Sterling City PAWNEE RENO STAFFORD **EDWARDS**



KDHE/ BOW. 2015

0 3.25 6.5 13 19.5 26 Miles





SUBBASIN: LITTLE ARKANSAS (HUC 11030012)

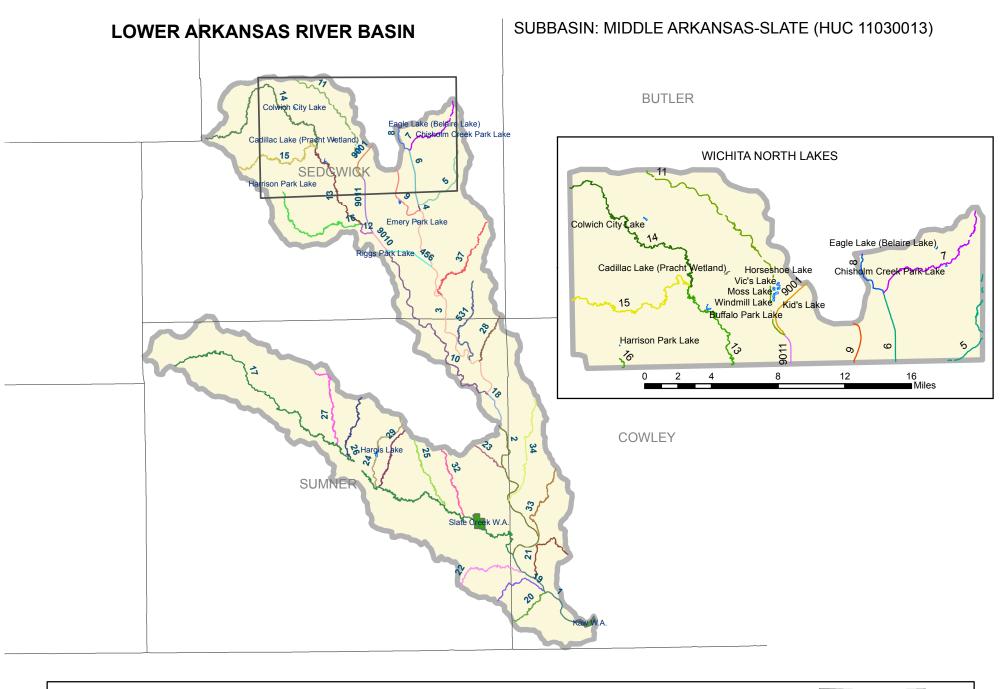


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/BOW. 2015

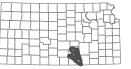




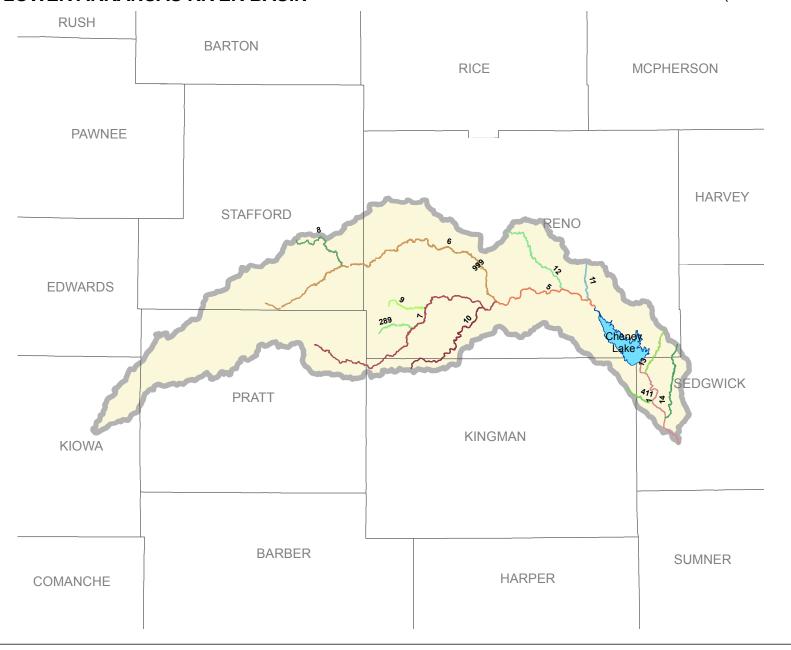


0 3 6 12 18 24 Miles





SUBBASIN: NORTH FORK NINNESCAH (HUC 11030014)

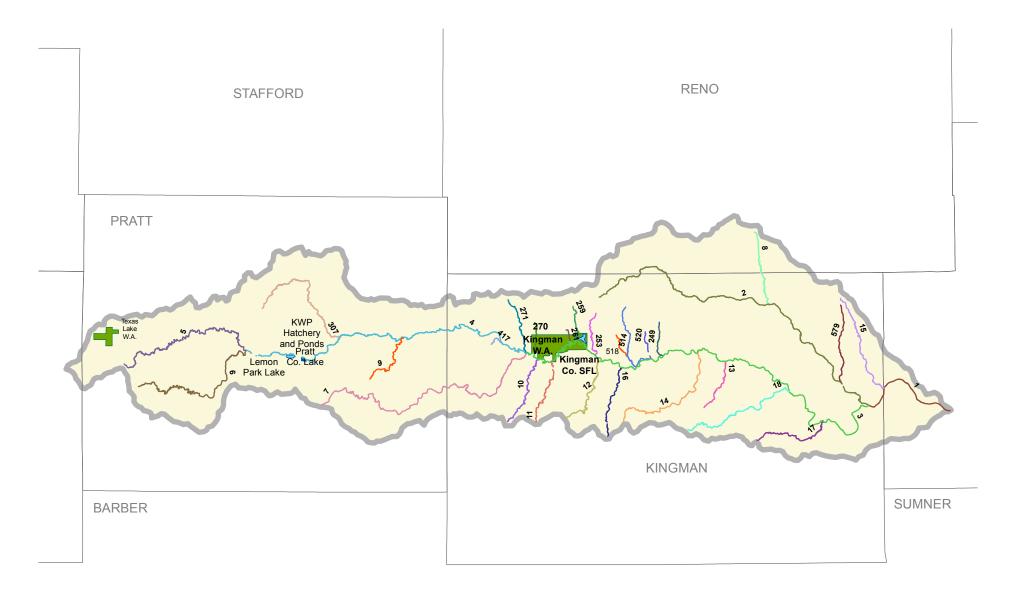


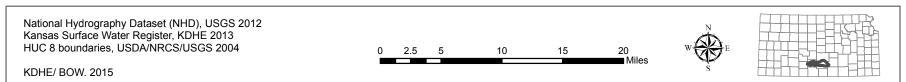
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





SUBBASIN: SOUTH FORK NINNESCAH (HUC 11030015)





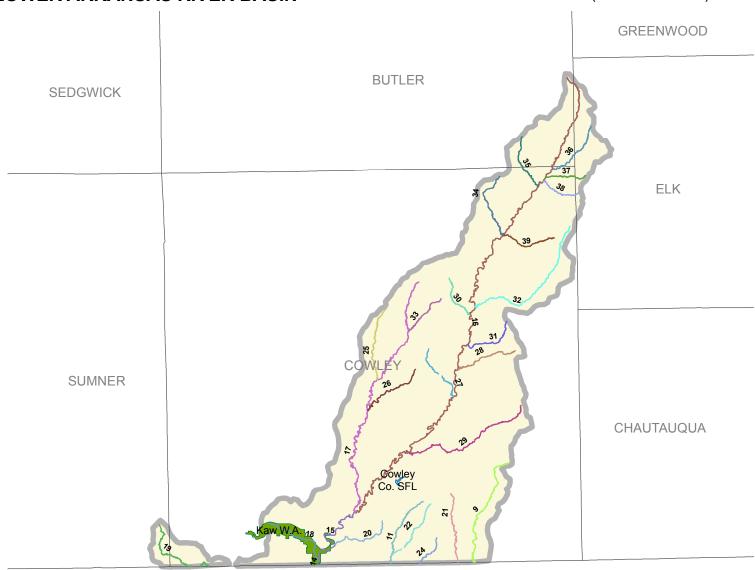


National Hydrography Dataset (NHD), USGS 2012
Kansas Surface Water Register, KDHE 2013
HUC 8 boundaries, USDA/NRCS/USGS 2004
KDHE/ BOW. 2015





SUBBASIN: KAW LAKE (HUC 11060001)



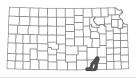
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015









SUBBASIN: UPPER SALT FORK (HUC 11060002)

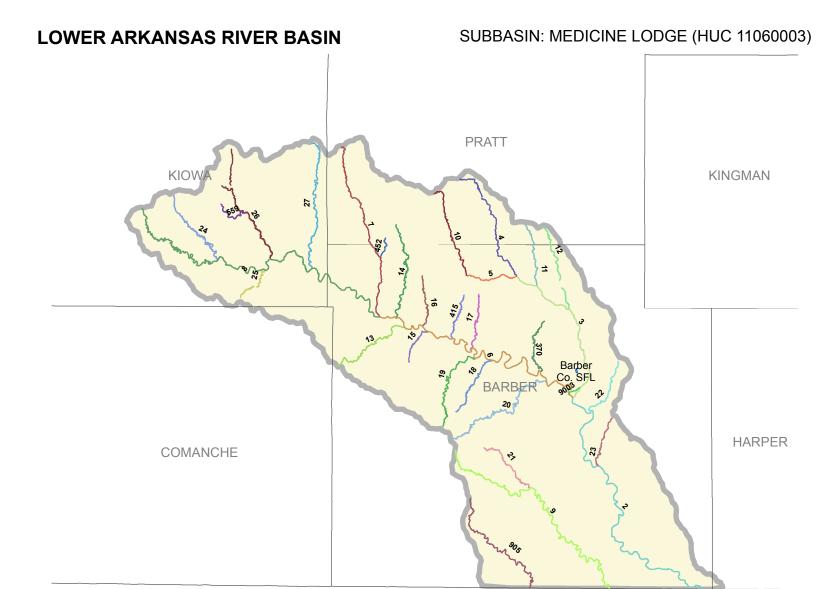


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004













SUBBASIN: LOWER SALT FORK (HUC 11060004)

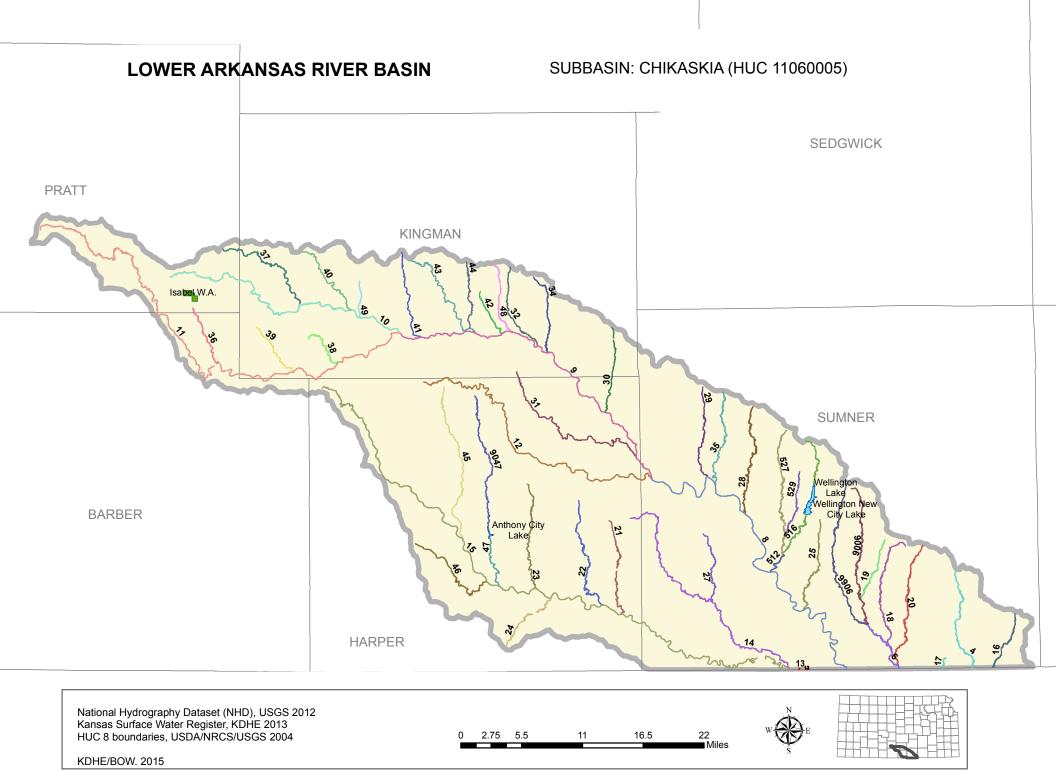


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015







MARAIS DES CYGNES RIVER BASIN

SUBBASIN: UPPER MARAIS DES CYGNES (HUC 10290101)



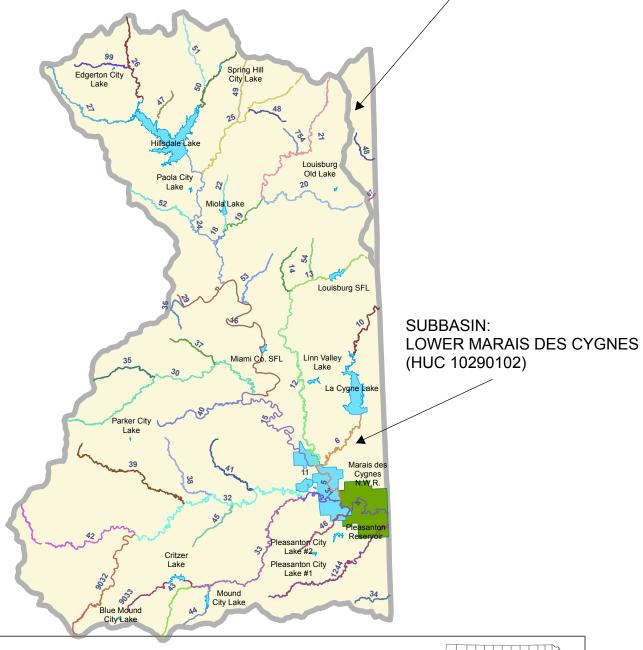
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004 KDHE/BOW. 2015





MARAIS DES CYGNES RIVER BASIN

SUBBASIN: SOUTH GRAND (HUC 10290108)



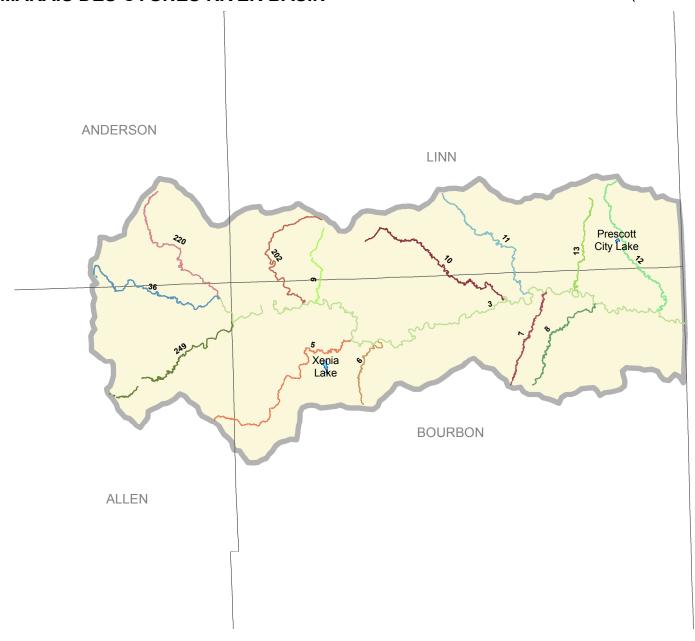
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries USDA/NRCS/USGS 2004

0 2.5 5 10 15 20 Miles



MARAIS DES CYGNES RIVER BASIN

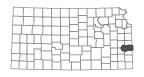
SUBBASIN: LITTLE OSAGE (HUC 10290103)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

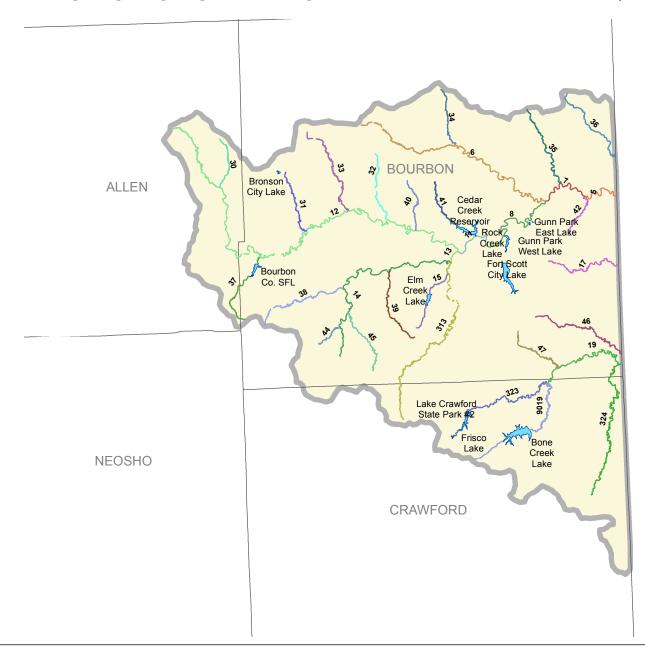






MARAIS DES CYGNES RIVER BASIN

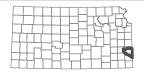
SUBBASIN: MARMATON (HUC 10290104)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





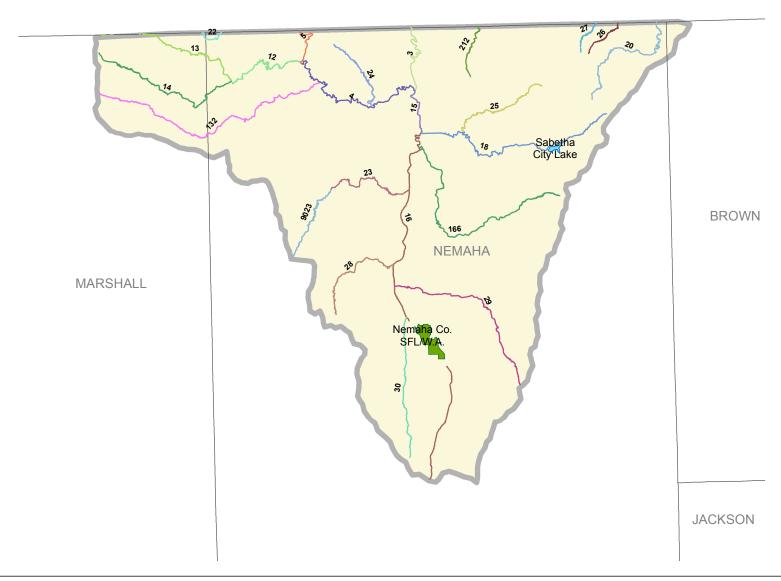


KDHE/ BOW. 2015

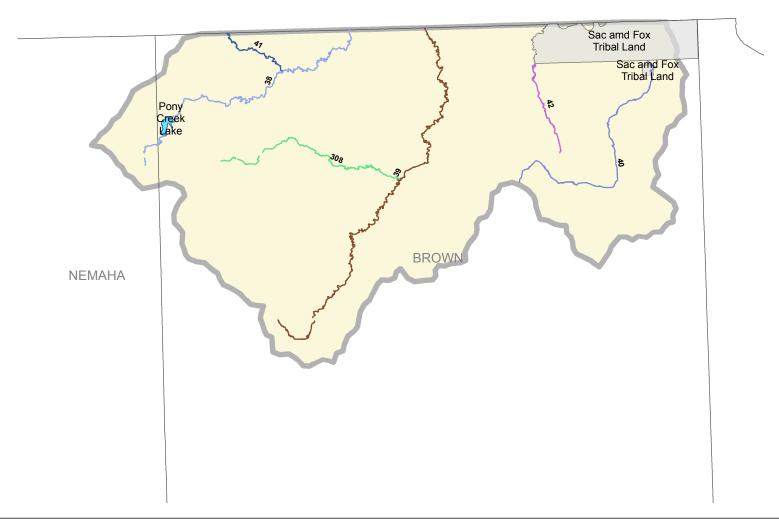


0 1.75 3.5

10.5



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

SUBBASIN: INDEPENDENCE-SUGAR (HUC 10240011)

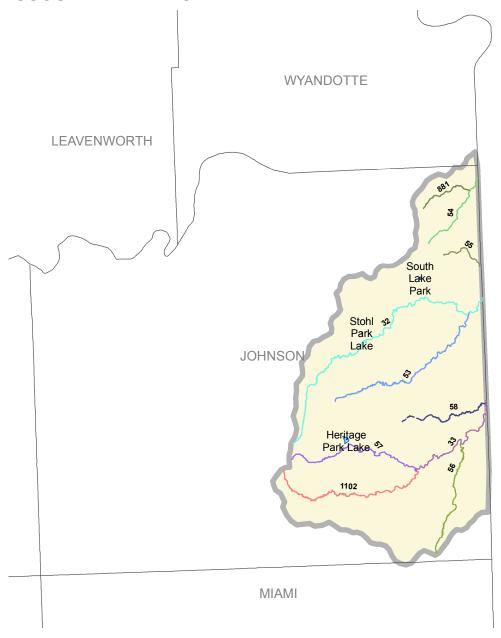


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004 KDHE/ BOW. 2015





SUBBASIN: LOWER MISSOURI-CROOKED (HUC 10300101)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





SUBBASIN: NEOSHO HEADWATERS (HUC 11070201)

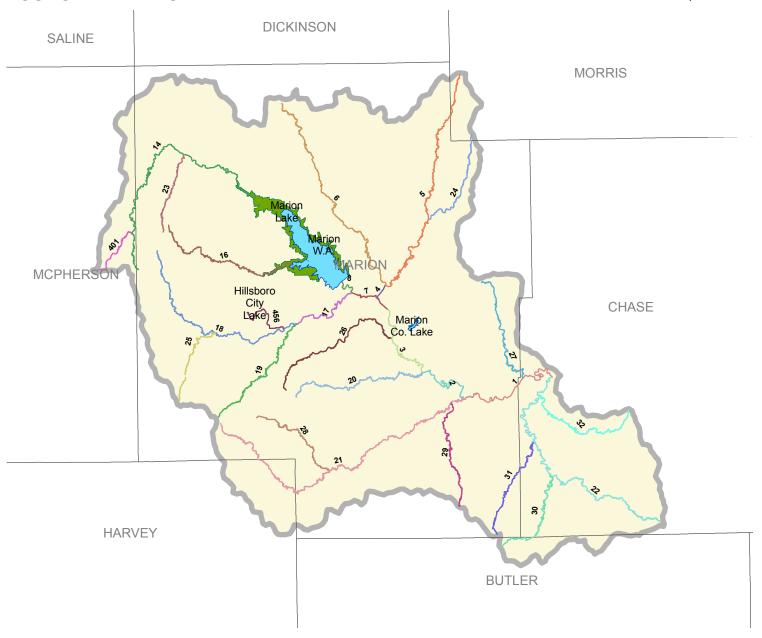


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





SUBBASIN: UPPER COTTONWOOD (HUC 11070202)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015

0 2.25 4.5 9 13.5 18 Miles



SUBBASIN: LOWER COTTONWOOD (HUC 11070203)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





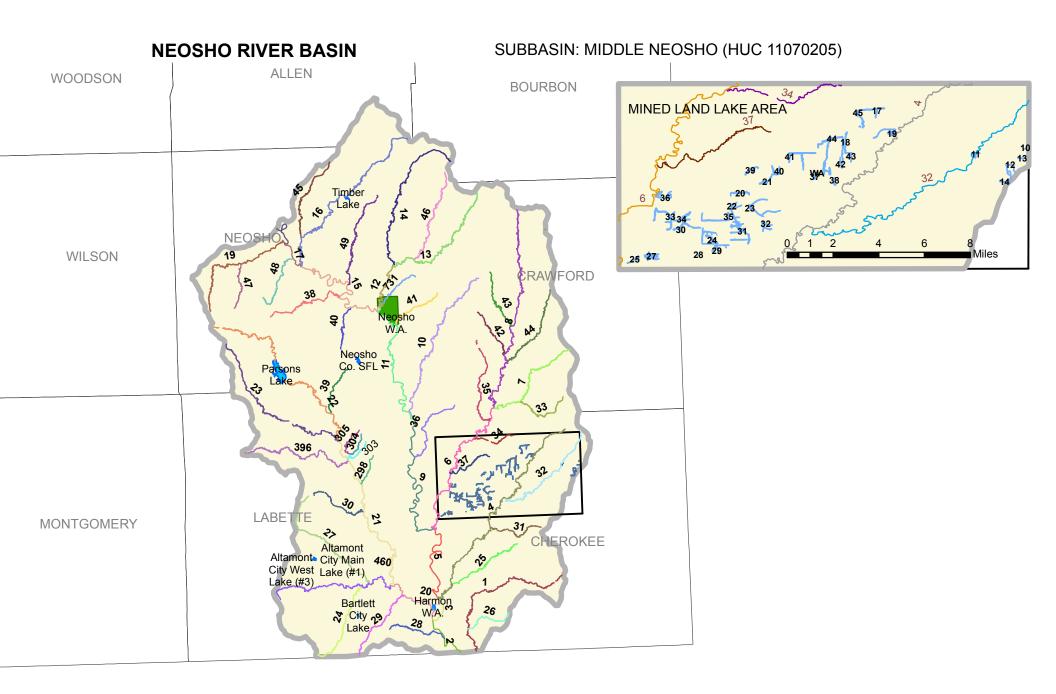
SUBBASIN: UPPER NEOSHO (HUC 11070204)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/BOW 2015

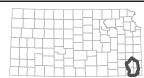






2.5 5 10 15 20 Miles



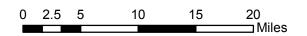


SUBBASIN: SPRING (HUC11070207)

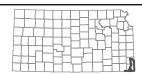


SUBBASIN:LAKE OF THE CHEROKEES (HUC11070206)

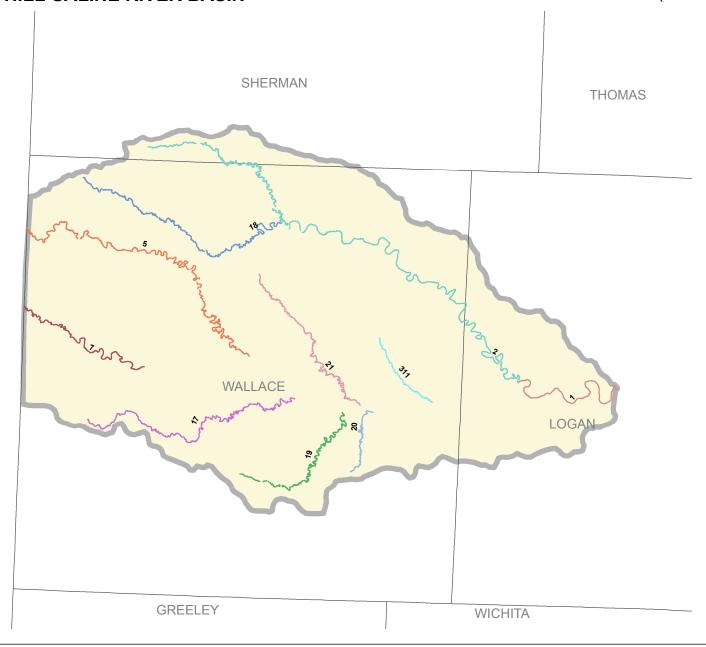
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDS/NRCS/USGS 2004







SUBBASIN: SMOKY HILL HEADWATERS (HUC 10260001)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





SUBBASIN: NORTH FORK SMOKY HILL (HUC 10260002)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

0 2 4 8 12 16 Miles





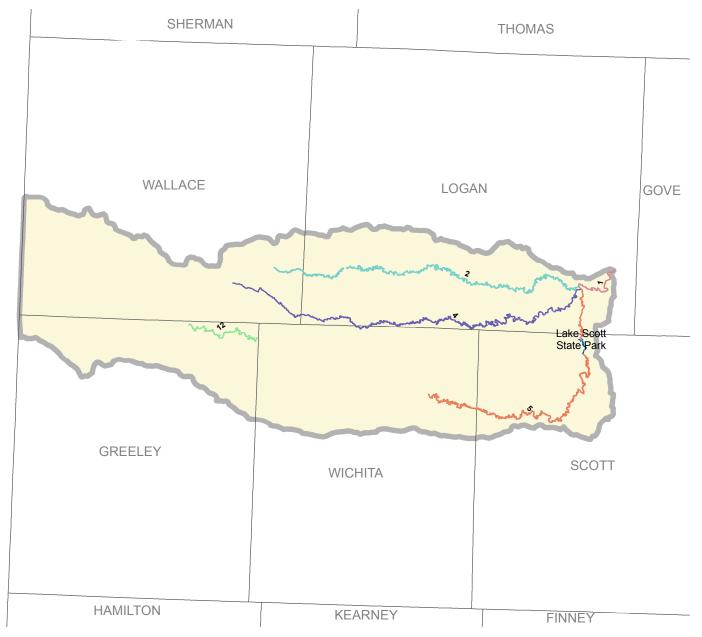






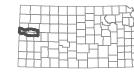


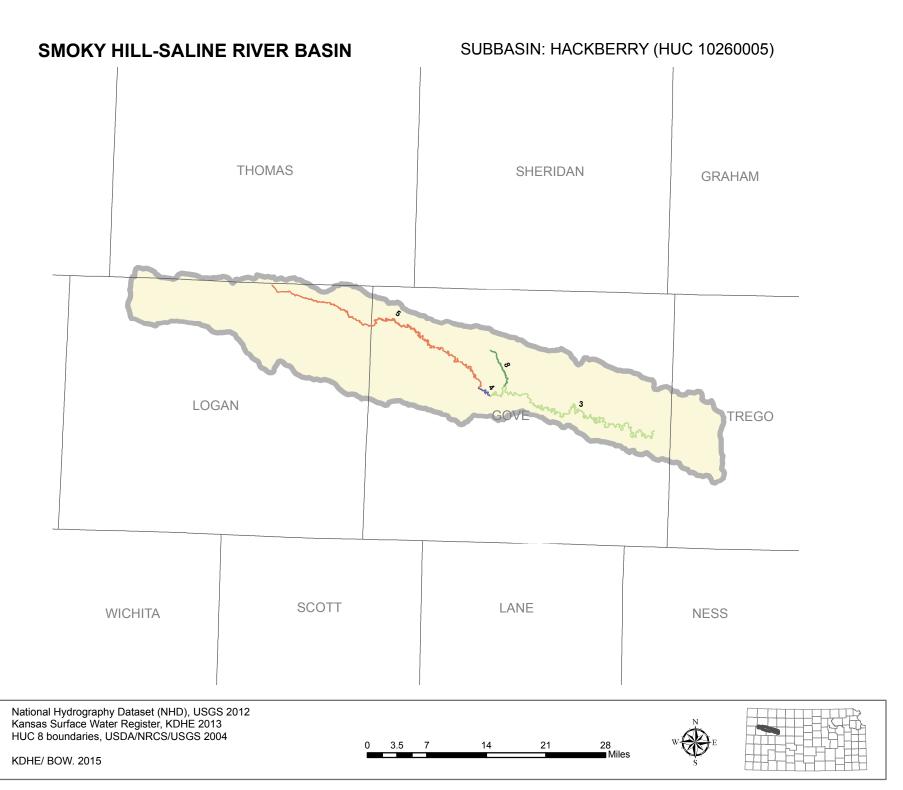
SUBBASIN: LADDER (HUC 10260004)



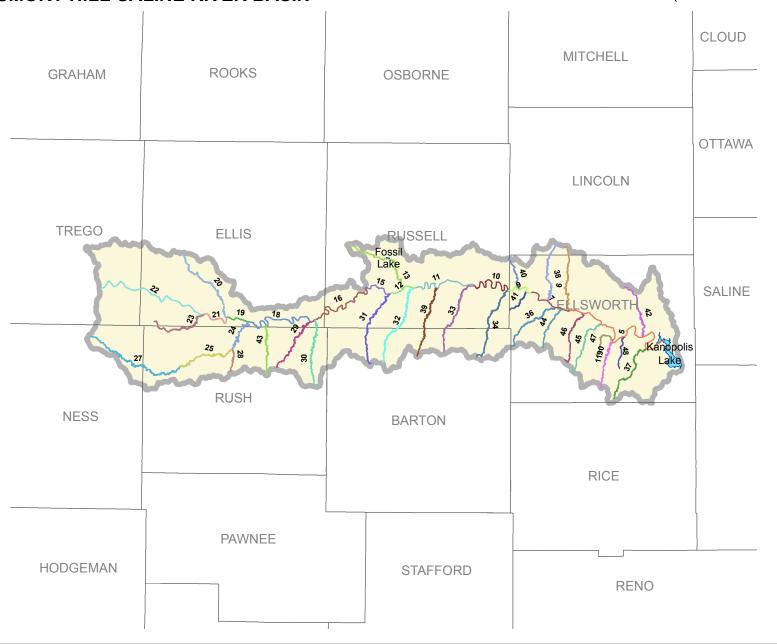
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004



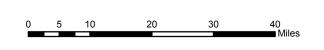




SUBBASIN: MIDDLE SMOKY HILL (HUC 10260006)



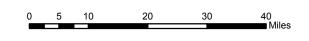
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004



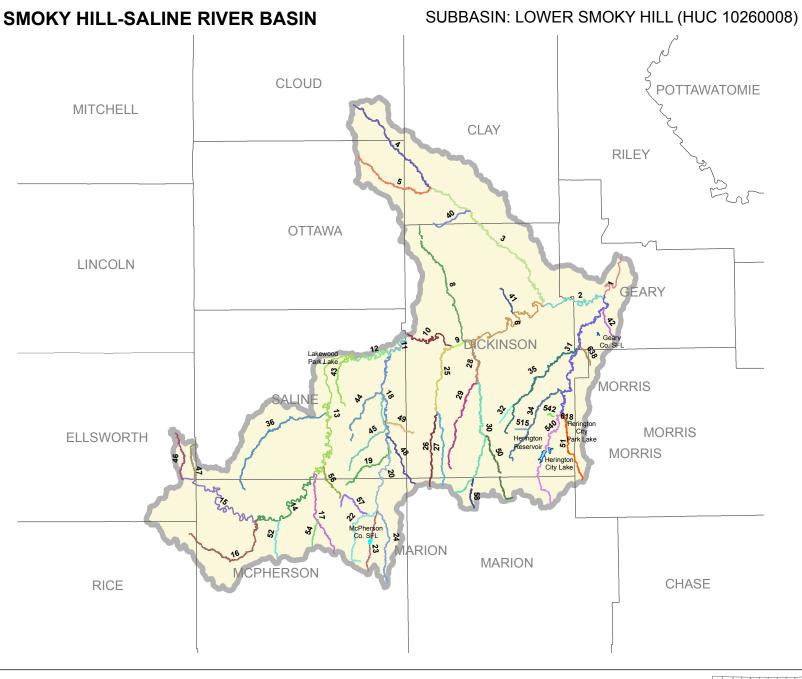
SUBBASIN: BIG (HUC 10260007)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004







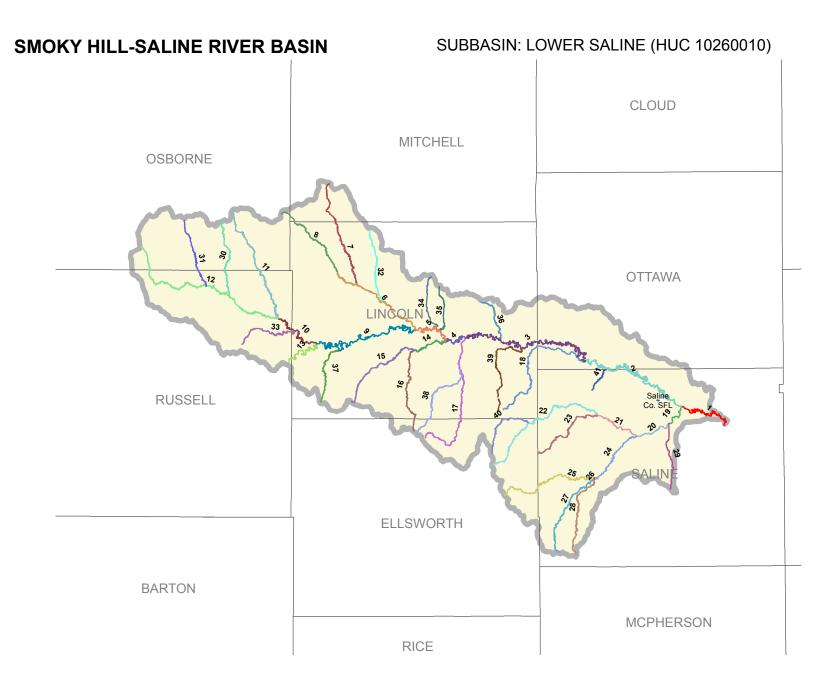


		RAWLINS			DECATUR		NORTON	PHILLIPS	SMITH	JEWELL
SHERMAN		THOMAS			SHERIDAN		GRAHAM	ROOKS Reacyville Rownship-take	OSBORNE	MITCHELL
		LOGAN			GOVE	Sherid W.A	TREGO	ELLIS	RUSSELL	LINCOLN
	WICH	HITA	SCOTT		LANE	NESS		RUSH	BARTON	ELLSWORTH
	KEARNEY		FINNEY				HODGEMAN	PAWNEE	STAFFORD	

National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004



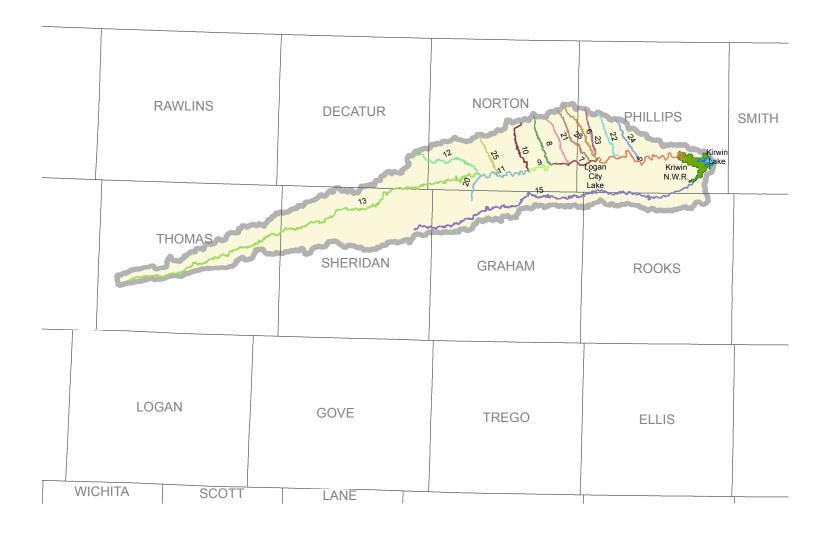








SOLOMON RIVER BASIN

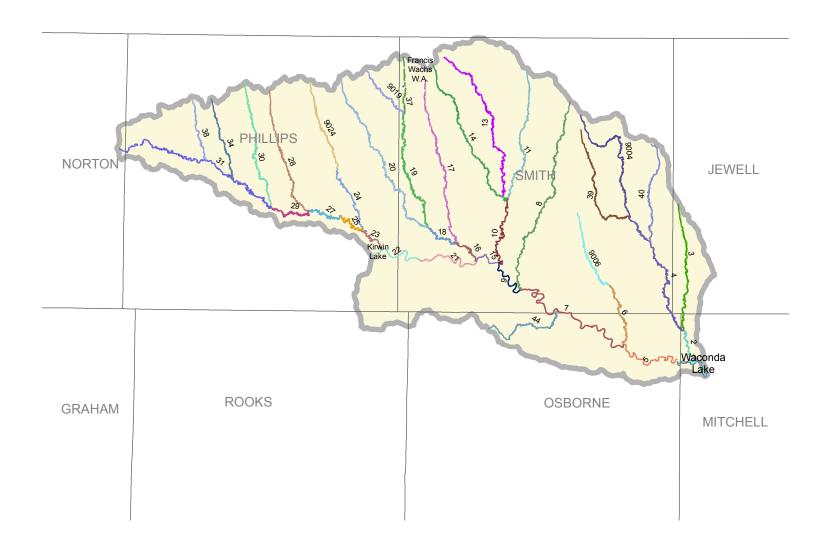


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





SOLOMON RIVER BASIN



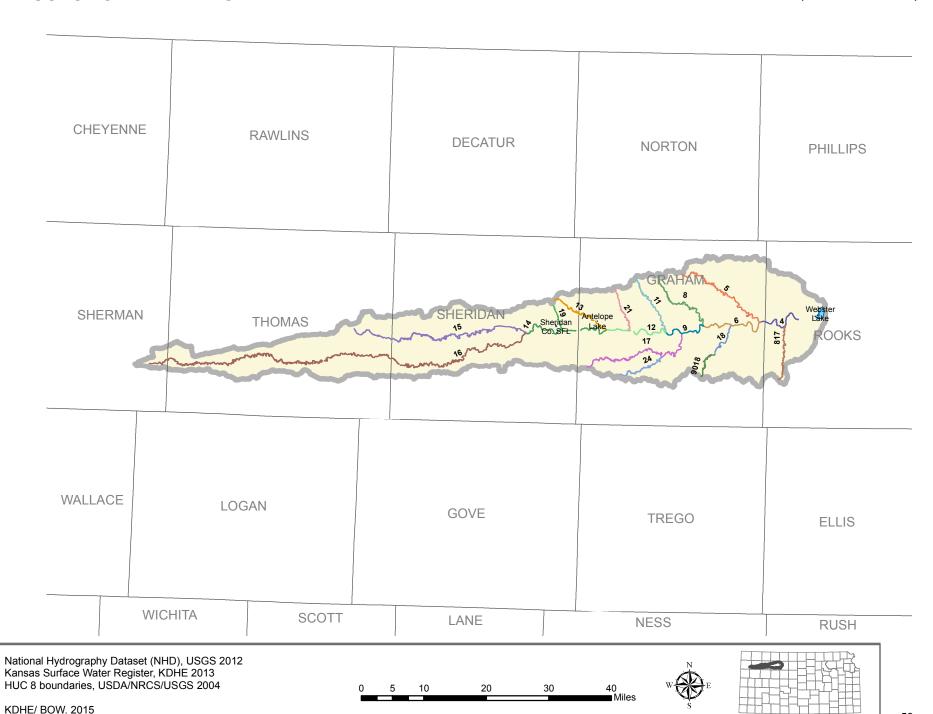
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

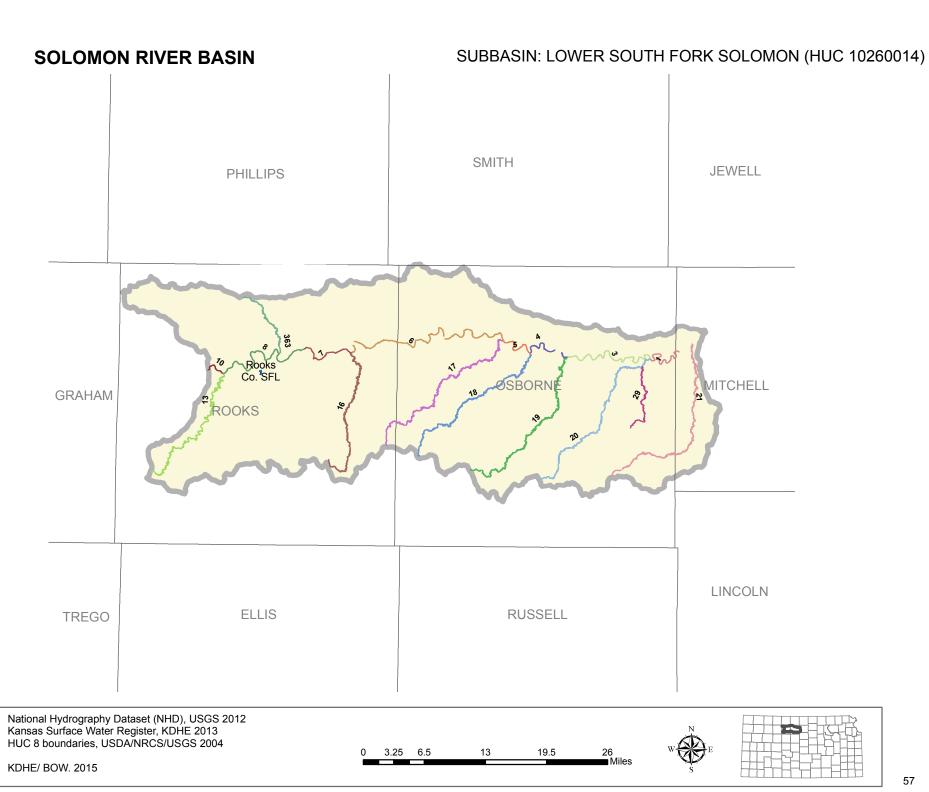
KDHE. BOW. 2015





SOLOMON RIVER BASIN







4.25 8.5

17

25.5

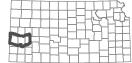
SUBBASIN: MIDDLE ARKANSAS-LAKE MCKINNEY HUC (11030001)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

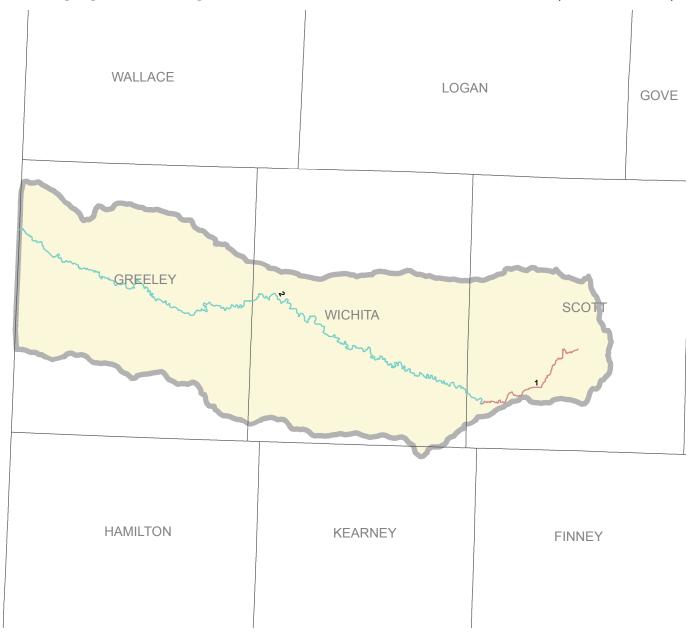








SUBBASIN: WHITEWOMAN (HUC 11030002)

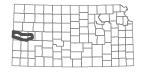


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

KDHE/ BOW. 2015

0 3.25 6.5 13 19.5 26 Miles





SUBBASIN: ARKANSAS-DODGE CITY (HUC 11030003)

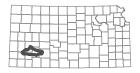


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

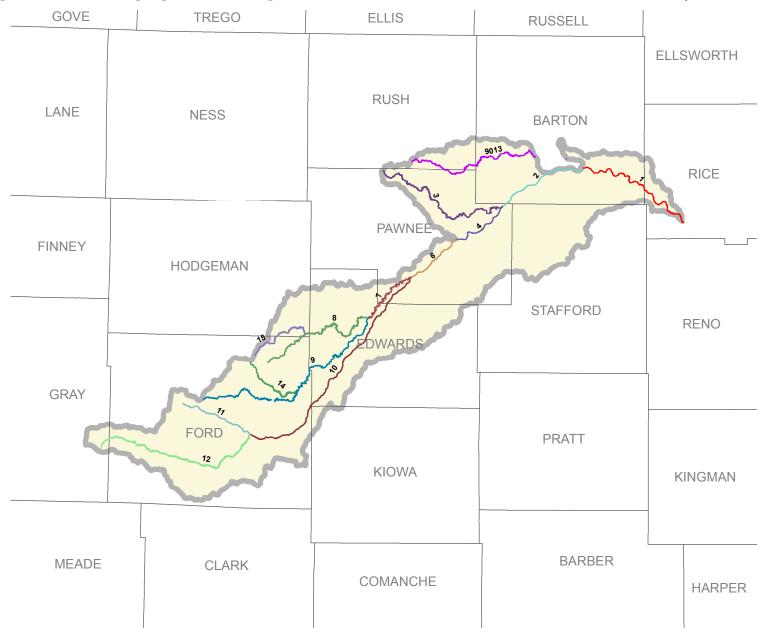
KDHE/BOW. 2015

0 3.5 7 14 21 28 Miles





SUBBASIN: ARKANSAS-PICKEREL (HUC 11030004)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





SUBBASIN: PAWNEE (HUC 11030005)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004



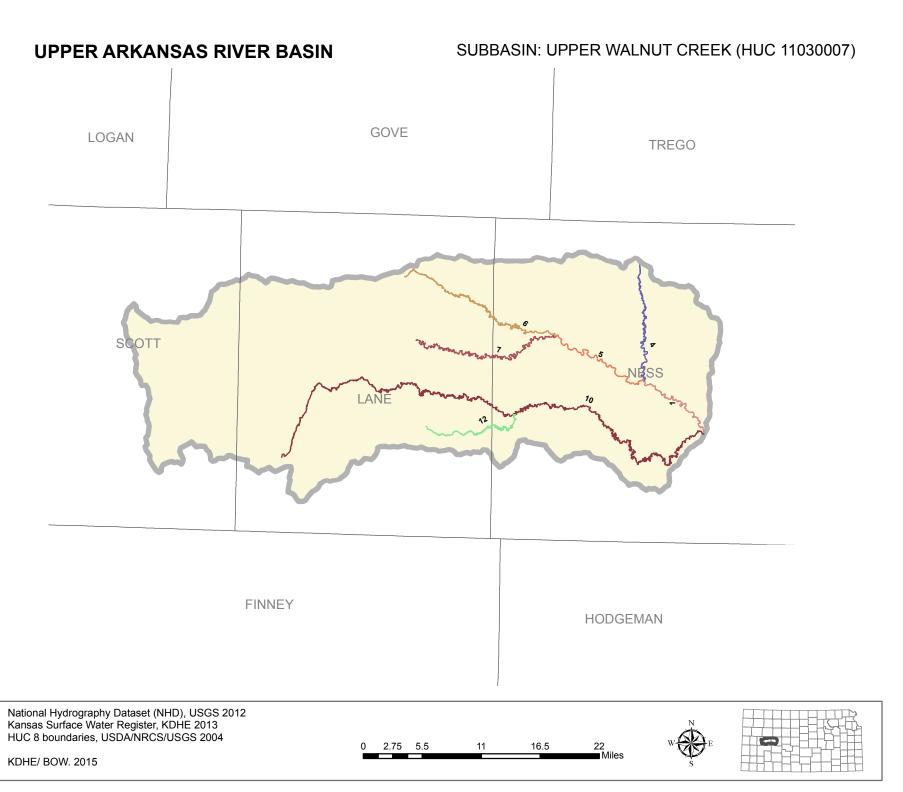


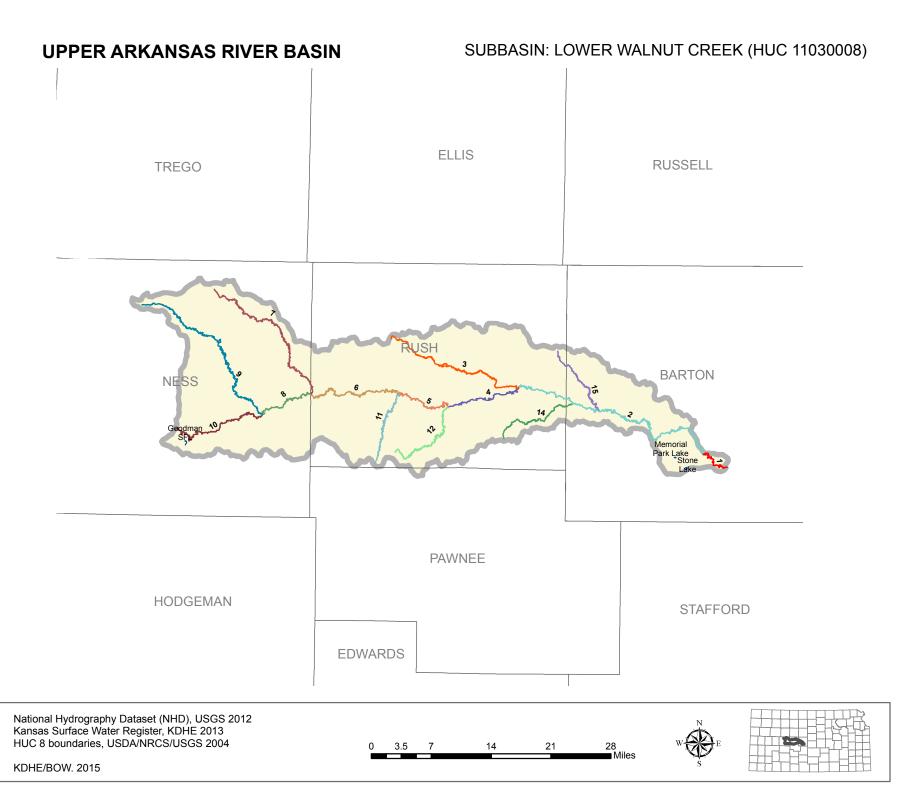






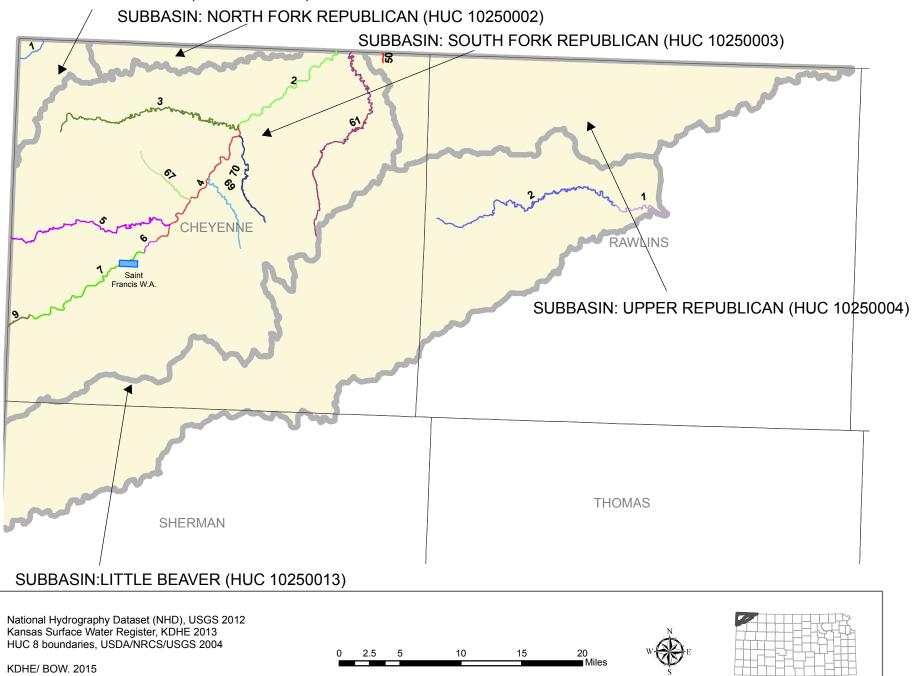


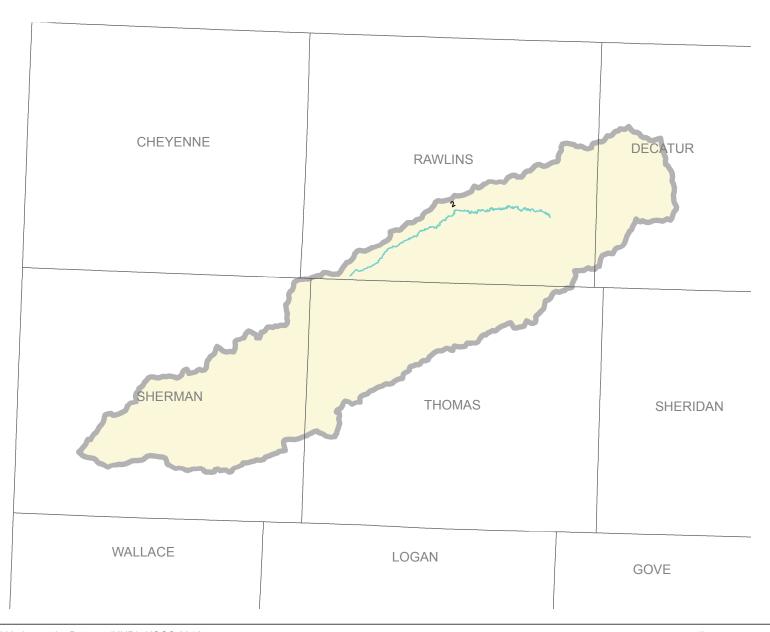




UPPER REPUBLICAN RIVER BASIN

SUBBASIN: ARIKAREE (HUC 10250001)

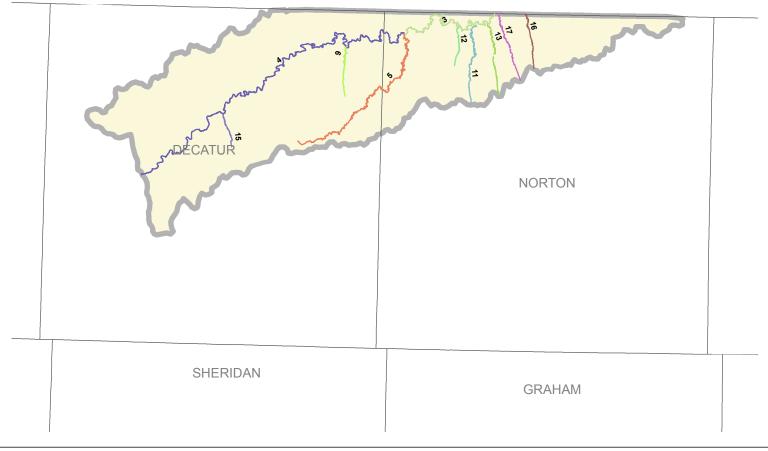




National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

0 3.75 7.5 15 22.5 30 Miles

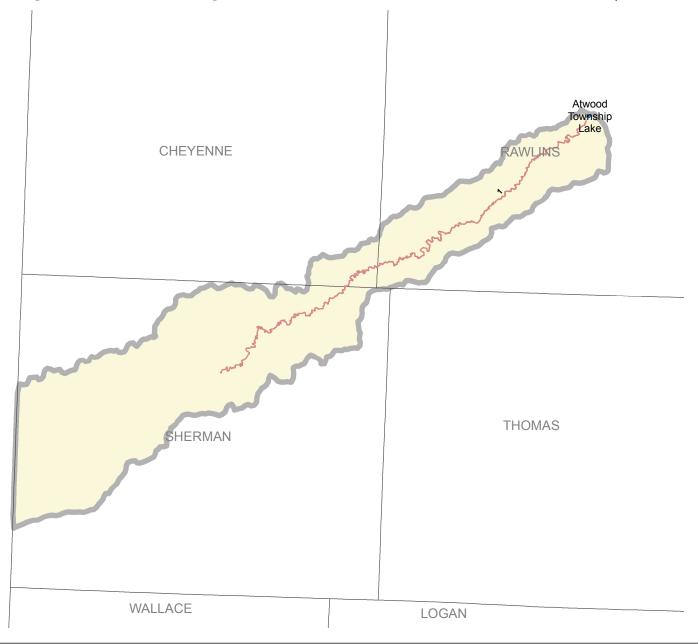




National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

UPPER REPUBLICAN RIVER BASIN

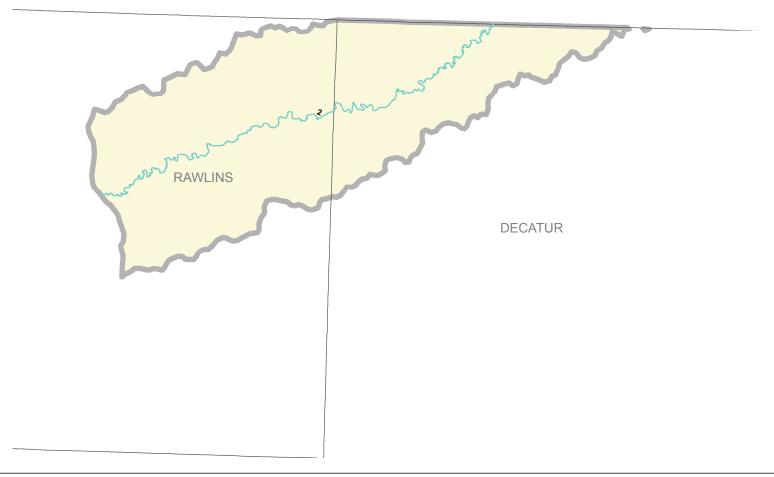
SUBBASIN: SOUTH FORK BEAVER (HUC 10250012)



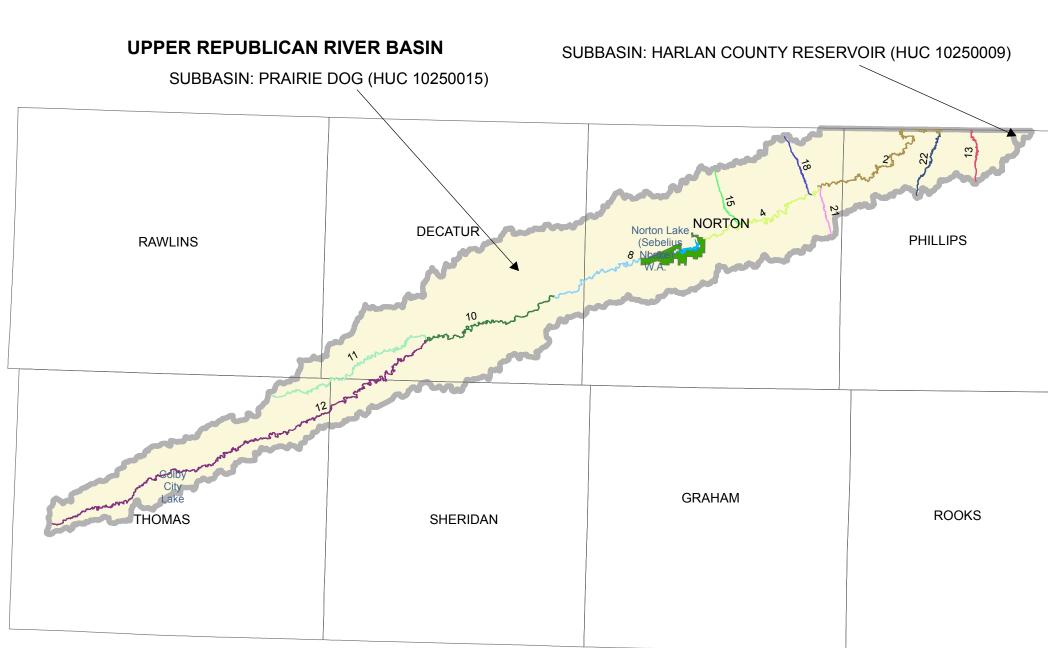
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

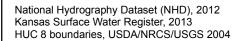






National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004

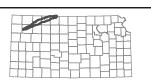


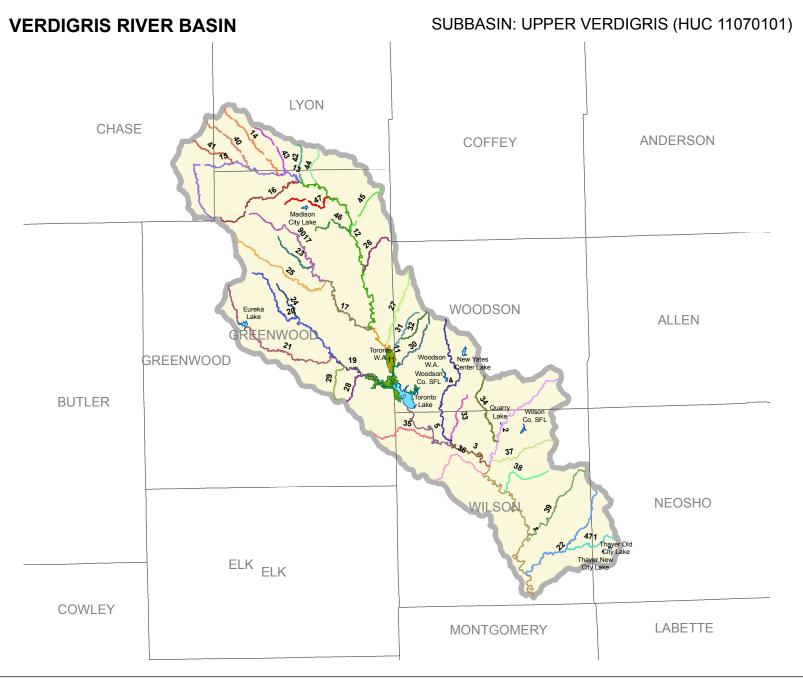


KDHE. BOW. 2015

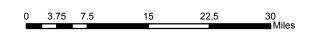








National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004







VERDIGRIS RIVER BASIN

SUBBASIN: FALL (HUC 11070102)



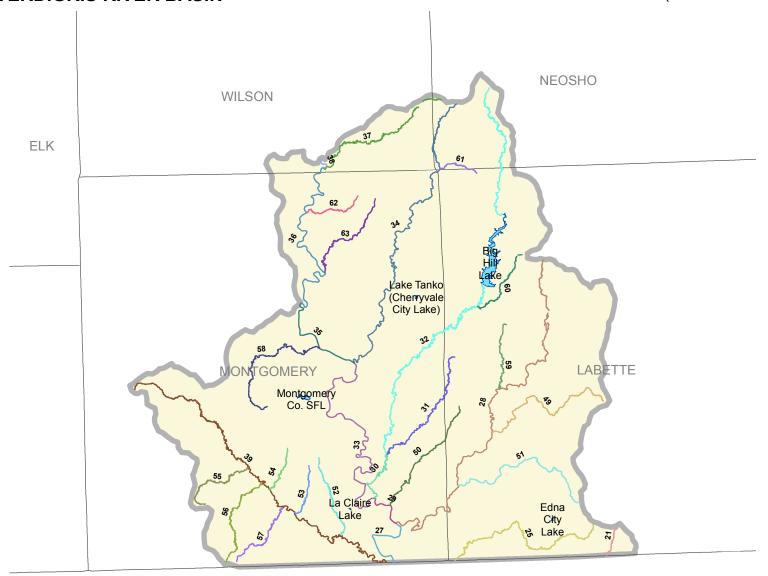
National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





VERDIGRIS RIVER BASIN

SUBBASIN: MIDDLE VERDIGRIS (HUC 11070103)

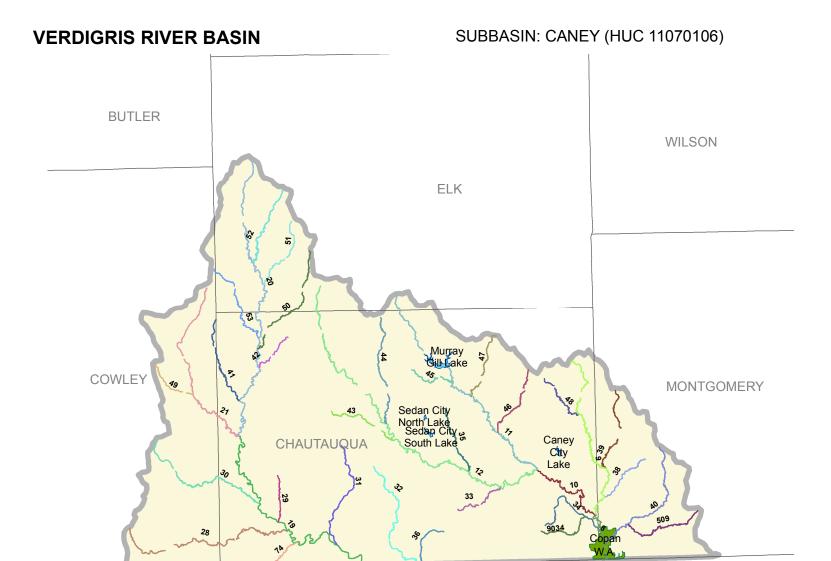


National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004



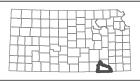


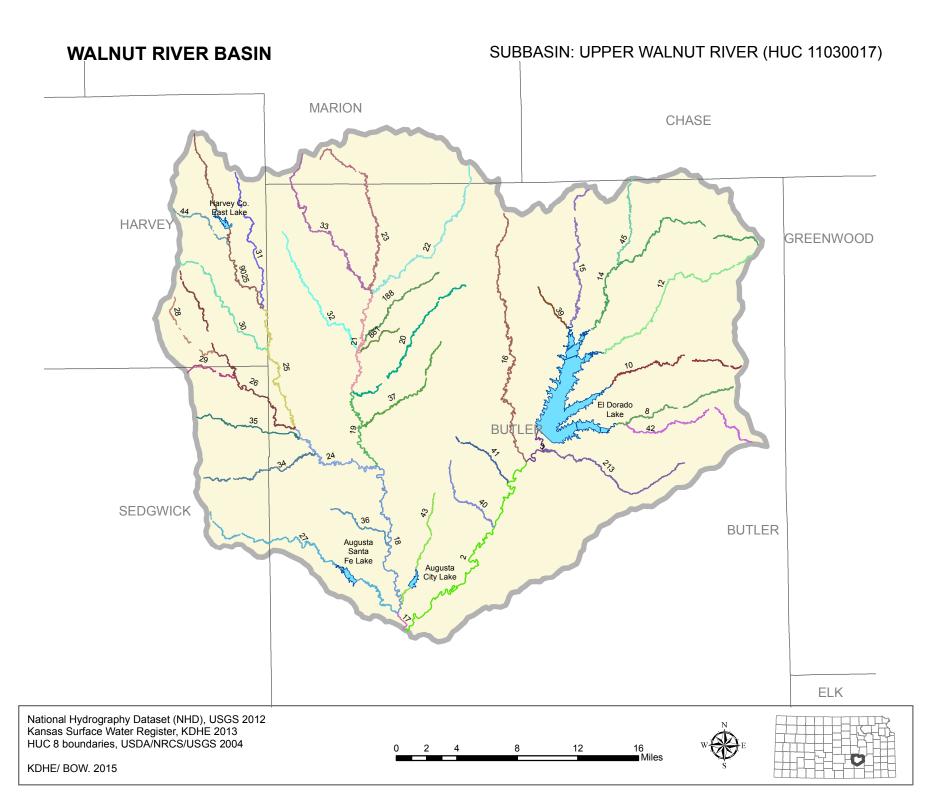












WALNUT RIVER BASIN

SUBBASIN: LOWER WALNUT RIVER (HUC 11030018)



National Hydrography Dataset (NHD), USGS 2012 Kansas Surface Water Register, KDHE 2013 HUC 8 boundaries, USDA/NRCS/USGS 2004





13 APPENDIX D



SECTION 901

TEMPORARY EROSION AND POLLUTION CONTROL

901.1 DESCRIPTION

Install, maintain and remove temporary erosion and pollution control devices as required during the construction of the project.

DID INC. IG	TINITED C
BID ITEMS	<u>UNITS</u>
Temporary Berm	Linear Foot
Temporary Slope Drain	Linear Foot
Temporary Slope Barrier (Set Price)	Linear Foot
Temporary Ditch Check	Linear Foot
Temporary Ditch Check (Rock) (Set Price)	Cubic Yard
Temporary Inlet Sediment Barrier	Each
Temporary Sediment Basin	Cubic Yard
Temporary Stream Crossing	Each
Sediment Removal (Set Price)	Cubic Yard
Temporary Fertilizer (**)	Pound
Temporary Seed (****)	Pound
Soil Erosion Mix	Pound
Temporary Seeding	Lump Sum
Erosion Control (*)	Square Yard
Mulching (Temporary)	Acre
Mobilization (Emergency Erosion Control) (Set Price)	Each
* Class & Type	
** Type of Fertilizer	
*** Type	

901.2 MATERIALS

a. Provide sediment barriers, fertilizers, seeds, soil erosion mix, erosion control materials and mulch that comply with **DIVISION 2100**.

Provide aggregate that complies with aggregate ditch lining, $D_{50} = 6$ inches, **DIVISION 1100**. Existing aggregate from the project may be used under this specification, provided all applicable physical requirements are met.

b. Straw or Hay Bales. Provide straw or hay bales that are free of weeds declared noxious by the Kansas Department of Agriculture. Provide bales bound with twine. Do not use bales bound with wire.

The Engineer will accept the straw or hay bales based on **DIVISION 2100**.

c. Temporary Slope Drain. Provide metal pipe, plastic pipe or flexible rubber pipe for temporary slope drains.

The Engineer will accept the material for temporary slope drain based on the condition of the pipe and visual inspection of the installed drain.

d. Biodegradable Logs. Provide commercially available biodegradable logs manufactured from rice straw, excelsior wood fiber, coconut fiber, jute or other biodegradable material bound with an open mesh fabric of jute or light-weight plastic.

The Engineer will accept the biodegradable logs based on compliance with dimensional and other requirements shown in the Contract Documents, and visual inspection of the installed material.

e. Geo-Ridge Permeable BermTM **or equivalent.** The Environmental Scientist (Bureau of Design, Environmental Services Section) will consider an equivalent of the brand name specified. Provide the Engineer with a complete description, literature, test reports, etc. on the proposed equivalent.

The Engineer will accept the Geo-Ridge Permeable BermTM (or an equivalent approved by the Environmental Scientist) based on brand name and visual inspection of the installed material.

f. Triangular Silt DikeTM or equivalent. The Environmental Scientist (Bureau of Design, Environmental Services Section) will consider an equivalent of the brand name specified. Provide the Engineer with a complete description, literature, test reports, etc. on the proposed equivalent.

The Engineer will accept the Triangular Silt DikeTM (or an equivalent approved by the Environmental Scientist) based on brand name and visual inspection of the installed material.

901.3 CONSTRUCTION REQUIREMENTS

a. Responsibility. Take all measures necessary to prevent erosion and pollution on the project and project related borrow areas.

If the contract does not include temporary erosion and pollution control bid items, and such work is required, items will be added as provided for in **subsection 104.8**.

Use KDOT's Temporary Erosion Control Manual as a guide for the design, installation and maintenance of temporary erosion control measures.

Install erosion control devices according to the approved erosion control schedule prior to or simultaneously with the clearing and grubbing operations. Do not perform grading until erosion control devices are in place as approved by the Engineer. Install devices to establish a perimeter control of the project in areas where it is anticipated that storm water runoff will leave the project.

Update the erosion control schedule as work progresses to show changes due to revisions in work schedules or sequence of construction, or as directed by the Engineer. Update the site map to reflect erosion control devices that have been installed.

As a minimum, perform the following erosion control actions:

- Use temporary erosion and pollution control actions to control erosion resulting from the construction of the project;
- Use temporary erosion and pollution control measures to prevent contamination of adjacent streams or other watercourses, lakes, ponds or other areas of water impoundment;
- Coordinate temporary erosion and pollution control measures with the construction of permanent erosion control features to provide continuous erosion control;
- Schedule construction of drainage structures and permanent erosion control features as soon as practical;
 and
- Initiate temporary erosion and pollution control measures for areas that have been disturbed, within 14 calendar days after construction activities have temporarily or permanently ceased on a portion of the project site. Exceptions are as follows:
 - If implementation of erosion and pollution control measures is precluded by snow cover, undertake such measures as soon as practical.
 - If construction activities will resume on the portion of the project site within 21 calendar days, temporary erosion and pollution control measures do not have to be initiated.
 - In arid regions (average annual rainfall of less than 10 inches), during seasonal arid conditions, implement the erosion and pollution control measures as soon as practical, but not necessarily within 14 calendar days.

Update the erosion control schedule as work progresses to account for changes due to revisions in work schedules or sequence of construction, or as directed by the Engineer. Update the site map to reflect erosion control devices that have been installed.

b. Permits. KDOT (or the local governmental agency) will obtain a National Pollutant Discharge Elimination System (NPDES) permit for projects with 1 acre or more of erodible surface. When Contractor-furnished borrow is required, obtain all required permits and clearances required for compliance, **subsection 107.2**.

A NPDES permit is not required for a project with less than 1 acre of erodible surface. The Contractor is not required to submit an erosion control schedule. The Contractor is required to comply with the concepts for erosion and pollution control presented in KDOT's Storm Water Pollution Prevention Plan (SWPPP), see subsection 901.3d.

c. General. Unless approved in writing by the Engineer, do not exceed 750,000 square feet of surface area of erodible earth material per equipment spread at one time. The Engineer will limit the surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow and embankment operations. Limit the exposed erodible earth material according to the capability and progress and in keeping with the approved schedule.

If on-site or state-furnished off-site borrow areas are to be excavated below the ground water elevation, construct a permanent berm around the borrow area to prevent storm water runoff from entering the excavated area.

Restrict construction operations in rivers, streams and other water impoundments to those areas that must be entered for the construction of temporary or permanent structures. When no longer required, promptly remove all falsework, piling, temporary crossings and other obstructions caused by the construction.

Do not ford live streams with construction equipment.

As dictated by weather conditions, actual site conditions and construction procedures, install and maintain temporary erosion and pollution control devices as shown in the Contract Documents, and as directed by the Engineer.

Implement temporary erosion and pollution control with berms, slope drains, ditch checks, slope barriers, sediment basins, inlet sediment barriers, fertilizer, seeding, mulching and erosion control blankets.

If temporary erosion and pollution control is not implemented and maintained according to the approved schedule, all work on the project shall cease until conditions are brought into compliance, as determined by the Engineer.

d. Project Storm Water Pollution Prevention Plan (SWPPP). Include in the project SWPPP, KDOT's SWPPP, Contract Documents pertaining to temporary erosion and water pollution control, inspection and maintenance reports, and the Contractor's erosion control schedule. KDOT's SWPPP can be found on the KDOT Internet at www.ksdot.org.

Before any construction activities begin, the Contractor and subcontractors implementing any measures identified in the SWPPP are required to certify that they understand the terms and conditions of the general NPDES permit. The Engineer will provide the certification form.

Before the preconstruction conference, submit to the Field Engineer 3 copies of a schedule for implementing and maintaining erosion and pollution control work during the construction phases. No contract work may begin until the Field Engineer has approved the erosion control schedule. As a minimum, the following information shall be included in the Contractor's erosion control schedule:

- (1) The planned sequence of major construction activities.
- (2) A site map showing the locations and devices to be used for the initial perimeter controls.
- (3) A description of controls to be used:
- Stabilization practices for all areas disturbed by construction;
- Structural practices for all drainage/discharge locations; and
- Other controls, including:
 - Waste disposal practices which prevent discharge of solid materials into water in the U.S.;
 - Methods of preventing contamination in areas designated for fuel and lubrication storage;
 - Actions to minimize offsite tracking of sediment by construction vehicles;
 - Actions to obtain compliance with state or local waste disposal, sanitary sewer or septic system regulations; and
 - When actions will be implemented, including permanent erosion control items when required
 in the Contract Documents.
- (4) Acknowledgment that State and Local requirements have been included in the schedule.
- (5) Provide a Maintenance and Inspection Report. See subsection 901.3q.
- **e. Temporary Berms.** Use temporary berms to divert storm runoff to stabilized slopes or temporary slope drains. Construct temporary berms as shown in the Contract Documents. Compact the berms until no further consolidation is observed, using a dozer track, grader wheel or other equipment.
- **f. Temporary Slope Drains.** Use temporary slope drains to carry storm runoff down fill slopes and cut backslopes. Construct the temporary slope drains as shown in the Contract Documents.

g. Temporary Slope Barriers. Use any of the materials listed in the Contract Documents to construct temporary slope barriers.

When temporary biodegradable logs, straw or hay bales are used, remove and dispose of the sediment when deposits reach approximately ½ the height of the log or bale.

When conditions warrant, supplement the temporary silt fence with a support fence. Reduce the post spacing and drive the posts further in the ground in low and soft, swampy areas. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the silt fence.

- **h. Temporary Ditch Checks.** The option exists to use any materials listed in the Contract Documents, excluding rock, to construct temporary ditch checks. When deposits reach approximately ½ the height of the temporary ditch check, remove and dispose of the accumulated sediment.
- **i. Temporary Ditch Checks Rock.** Use rock to construct temporary rock ditch checks listed in the Contract Documents. When deposits reach approximately ½ the height of the temporary rock ditch check, remove and dispose of the accumulated sediment.
- **j. Temporary Inlet Sediment Barrier.** Use any of the materials listed in the Contract Documents to construct temporary inlet sediment barriers.

When temporary silt fence is used, reduce post spacing and drive the posts further into the ground in low and soft, swampy areas. Remove and dispose of the sediment when deposits reach approximately ½ the height of the silt fence.

When temporary triangular silt dike, straw or hay bales are used, remove and dispose of the sediment when deposits reach approximately ½ the height of the silt dike or bales.

k. Temporary Sediment Basins. Before constructing a temporary sediment basin, clear the area of all vegetation. Construct the temporary sediment basin with a wide cross-section and a minimum grade, as shown in the Contract Documents. Dispose of excess excavated material.

Remove and dispose of the accumulated sediment when deposits reach approximately $\frac{1}{3}$ the depth of the structure.

l. Temporary Stream Crossing. Use any of the materials shown in the Contract Documents to construct temporary stream crossings.

When the Contractor's operations require a temporary stream crossing, and one is not shown in the Contract Documents, the Contractor may install one at no cost to KDOT. Comply with all applicable rules and regulations, obtain all required permits and provide copies of all permits to the Field Engineer.

- **m. Temporary Fertilizer, Seed and Mulch.** Prepare the seedbed, fertilize, seed and mulch according to **DIVISION 900**. Apply the temporary fertilizer, seed and mulch at the rates shown in the Contract Documents.
- **n. Soil Erosion Mix.** Prepare a smooth, weed-free and debris-free area, and broadcast or hydro-seed the soil erosion mix seed over the prepared area. Lightly hand rake broadcasted seed before placement of the erosion control.
- **o. Temporary Seeding.** "Temporary Seeding" is to be used only if the project has less than 1 acre of erodible surface. If this item is used, fertilize, seed and mulch all exposed erodible earth.

Prepare the seedbed, fertilize, seed and mulch according to **DIVISION 900**. Apply the temporary fertilizer, seed and mulch at the rates shown in the Contract Documents.

- **p. Erosion Control.** After seeding according to **DIVISION 900**, install erosion control according to the manufacturer's requirements for edge and junction overlaps, staple size and staple pattern.
- (1) Areas with Erosion Control (Class I). Place the Erosion Control (Class I). Do not mulch over the Erosion Control (Class I).
- (2) Areas with Erosion Control (Class II). Place the Erosion Control (Class II) and cover it with ½ inch of pulverized, fine-grained soil. Hand rake the soil into the erosion control material; then mulch the area according to **SECTION 904**.

q. Maintenance and Removal of Temporary Erosion and Pollution Control Devices. Maintain the effectiveness of the temporary erosion and pollution control devices as long as required to contain sediment runoff. Inspect the temporary erosion and pollution control devices and complete the inspection and maintenance reports every 7 days and within 24 hours of a rainfall event of ½ inch or more. Monitor temporary erosion and pollution control devices at least daily during prolonged rainfall. Within 48 hours, begin corrective action of any deficiencies found in the perimeter controls, and complete corrective actions within 7 calendar days. Correct all other devices as soon as conditions allow access to their location without causing additional damage to the slopes.

Submit copies of inspection and maintenance reports to the Field Engineer within 3 working days after an inspection has been made. Use either KDOT-furnished maintenance report forms or approved Contractor's maintenance forms.

Remove the temporary devices when directed by the Engineer. After removing the temporary erosion and pollution control devices, remove and dispose of the silt accumulation. Grade, fertilize, seed and mulch any bare areas.

When temporary erosion and pollution control devices are installed according to the Contract Documents, or as approved by the Engineer and such devices are no longer effective because of deterioration or functional incapacity, payment will be made for replacement of these devices, as directed by the Engineer. No payment will be made for replacing temporary erosion control devices that become ineffective because of improper installation, lack of maintenance or the Contractor's failure to pursue timely installation of permanent erosion control devices according to the Contract Documents.

r. Mobilization for Emergency Erosion Control and Erosion Control Mobilization Delay Damages.

- (1) Mobilize sufficient personnel, equipment, materials and incidentals to the job site within 24 hours after receiving the Engineer's written order to conduct temporary erosion control work on an emergency basis (24-hour period), unless extended by the conditions of **subsection 901.3r.(5)**. Note: "sufficient personnel, equipment, materials and incidentals" is considered to be enough to complete all emergency erosion control within the 7 days from date of notice.
- (2) An emergency is a sudden occurrence of a serious nature that causes perimeter erosion control devices to fail (in whole or in part) allowing sediment to be deposited onto adjacent property or streams, or creating a risk that sediment will be deposited onto adjacent property or streams. The work is beyond normal maintenance of erosion control items and requires immediate movement of necessary personnel, equipment, materials and incidentals to the project site. The emergency may require immediate corrective work, installation of erosion control measures or both.
- (3) If the Contractor mobilizes to the project within the 24-hour period or an approved extension under **subsection 901.3r.(5)**, the Engineer will pay Mobilization (Emergency Erosion Control) (Set Price).
- (4) If the Contractor fails to mobilize to the project within the 24-hour period or approved extension under **subsection 901.3r.(5)**, the Contractor is liable for Erosion Control Mobilization Delay Damages. The Erosion Control Mobilization Delay Damages charged and owing are \$500.00 per calendar day for each calendar day (including Sundays, Holidays and the Winter Holiday Period) that the Contractor fails to mobilize to the project after the 24-hour period or approved extension expires. See **subsection 901.3r.(1)**.
- (5) The Engineer may extend the mobilization time beyond the 24-hour period for unusually severe weather or Acts of God that prevent the Contractor from mobilizing to the project site.
- **s. Erosion Control Disincentive Assessment.** If the Contractor fails to complete corrective actions of the perimeter controls within the 7 calendar days required under **subsection 901.3q.**, the Contractor is liable for an Erosion Control Disincentive Assessment. The Erosion Control Disincentive Assessment charged and owing is \$250.00 for each erosion control device deficiency and for each calendar day (including Sundays, Holidays and the Winter Holiday Period) the deficiency remains uncorrected.
- t. Computing Mobilization Delay Damages and Erosion Control Disincentive Assessment. The Engineer will deduct and withhold the Erosion Control Mobilization Delay Damages under subsection 901.3r.(4) and Erosion Control Disincentive Assessment under subsection 901.3s. to either or both concurrently, as applicable. The assessments are to be computed in the same manner as damages under subsection 108.8, (Liquidated Damages) except calendar days include Sundays, Holidays and the Winter Holiday Period.

u. Indemnify KDOT, local government authorities or any other NPDES permit holders from fines that KDHE or EPA impose because of the Contractor's failure to comply with applicable laws, regulations, ordinances and permits.

901.4 MEASUREMENT AND PAYMENT

The Engineer will measure temporary berms, temporary slope drains, temporary slope barriers and temporary ditch checks by the linear foot.

The Engineer will measure temporary rock ditch checks by the cubic yard.

The Engineer will measure each temporary inlet sediment barrier and temporary stream crossing as a unit.

The Engineer will measure temporary sediment basins by the cubic yard excavated to construct the basin.

The Engineer will measure sediment removal by the cubic yard of sediment removed.

The Engineer will measure temporary fertilizer, temporary seed and soil erosion mix by the pound.

The Engineer will measure "Temporary Seeding" as a lump sum; no measurement of area is made.

The Engineer will measure erosion control by the square yard.

The Engineer will measure temporary mulching by the acre.

The Engineer will measure Mobilization, Emergency Erosion Control per each mobilization ordered by the Engineer.

The Engineer will measure any disincentive assessment on an each devise per day basis.

The Engineer will measure any erosion control mobilization delay damages by the lump sum.

Payment for the various items of temporary erosion and pollution control is full compensation for the specified work. Contract unit prices will govern regardless of overruns or underruns of the estimated quantity.

Payment for "Temporary Slope Barrier (Set Price)", "Temporary Ditch Check Rock (Set Price)", "Sediment Removal (Set Price)" and "Mobilization, Emergency Erosion Control (Set Price)"at the contract set unit prices is full compensation for the specified work.

14 APPENDIX E



Rolled Erosion Control Products Definition

Rolled erosion control products (RECPs) consist of prefabricated blankets or netting which are formed from both natural and synthetic materials.

Description and Purpose

The predominantly used RECPs generally fall into the following two categories, each having unique characteristics:

- <u>Erosion control blanket (ECB):</u> A temporary degradable rolled erosion control
 product composed of processed natural or polymer fibers
 mechanically, structurally or chemically bound together to form a
 continuous matrix to provide erosion control and facilitate vegetation
 establishment.
- Turf reinforcement mat (TRM): A rolled erosion control product composed of non-degradable synthetic fibers, filaments, nets, wire mesh and/or other elements, processed into a permanent, three-dimensional matrix. TRM's, which may be supplemented with degradable components, are designed to provide immediate erosion protection, enhance vegetation establishment and provide long-term functionality by permanently reinforcing vegetation during and after maturation. TRM's are typically used in hydraulic applications, such as high flow ditches and channels, steep slopes, stream banks, and shorelines, where erosive forces may exceed the limits of natural, unreinforced vegetation or in areas where limited vegetation establishment is anticipated.

The practice may also be called Erosion Control Blanket, Mulch Blanket, or Erosion Control Matting

Pollutant controlled

• Suspended Sediment

Companion and Alternative BMPs

- Seeding/Vegetation
- Mulching

Advantages and Disadvantages

<u>Advantages</u>

- Can provide for some degree of immediate stabilization
- Numerous manufacturers, each with a number of different products, allow for the selection of a product which meets the individual characteristics of each site.

RE-1 v2010.9.9

- Stabilizes disturbed slope and protects surface from erosive forces of raindrop impact.
- Promotes growth of vegetation.
- Most products degrade over time, eliminating potential maintenance issue.

<u>Disadvantages</u>

- Various products and manufacturers have different design and construction standards. Designer must rely on manufacturer's data.
- Permanent stabilization and protection is dependent on the establishment of vegetation unless TRMs are used.

Location

Rolled erosion control products should be used on bare ground that is highly susceptible to erosion, such as steep slopes and channels, and in locations where establishing vegetation may otherwise be difficult.

General Characteristics

- Several factors, such as soil conditions, steepness and length of slope, depth of flow, runoff velocities, and time required to establish desired vegetation, influence the choice of product.
- RECPs and TRMs are manufactured from a wide variety of different materials including coconut fiber (coir), jute, nylon, polypropylene, PVC, straw, hay, or wood fibers. These materials may be used individually, or in combination to form nets or blankets.
- The products function by protecting the ground surface from the impact of raindrops and stabilize the surface until vegetation can be established. RECPs and TRMs also promote the growth of vegetation by helping to keep seed in place, and by maintaining a consistent temperature and moisture content in the soil.
- Most RECPs are either biodegradable or photodegradable and will decompose over a period of time.
- RECPs should generally be installed parallel to the direction of water flow.

Materials

- Seed
- Fertilizer
- RECP
- Degradable Stakes/Pegs/Pins

Design Specifications

 RECPs are produced by a number of manufacturers, and are available in a wide variety of different configurations. Competing products from different manufacturers can have completely different material compositions and construction, but be intended to serve the same purpose. Given the wide variety of RECPs available, product selection and specification can be difficult.

RE-2 v2010.9.9

- Table 1 is modified from the product selection guide produced by the ECTC and classifies products based upon longevity and product description.
- Factors such as the slope on which the RECP is to be placed and the sheer stress
 that the RECP will experience shall be used to determine which RECP product
 is adequate for the application it is intended for.
- Stake placement and installation should follow manufacturer recommendations

Construction Guidelines

- 1. Prior to placing a RECP, a topsoil seedbed should be prepared, <u>smooth graded</u>, and seeded and fertilized. It is imperative that seeding occur prior to placement of the RECP to ensure proper contact between seed and soil. Some manufacturers can embed the specified seed mixture into the product during the manufacturing process (if this process is used, follow the manufacturer's recommended installation specifications).
- 2. After seeding, the appropriate RECP may be placed and anchored with stakes or staples. The manufacturer will provide specifications for the pattern and spacing of anchor stakes or staples, overlap between rolls (typically 6 inches), and any additional product requirements.
- 3. It is important that the stakes or staples be properly installed to prevent "tenting" of the product as the vegetation begins to grow and push up on the matting. This can impact vegetative establishment and the product can become entangled in mowing equipment.
- 4. At the tops of slopes and at the entrance to a channel, the leading edge of the RECP should be trenched into the ground, approximately 6 inches, anchored in place with stakes or staples, and backfilled. This prevents runoff from lifting the leading edge, and flowing between the ground and the RECP.
- 5. Subsequent segments of RECPs should have their upstream edges trenched in, and the downstream edge should slightly overlap the next section to prevent water from flowing under the product.

Monitoring

Inspect weekly and after every storm event that results in a discharge from the site until adequate vegetation is established.

Maintenance

- Repair erosion and/or undermining at the top of the slope.
- Repair undermining beneath RECP(s), pull back the RECP(s), fill and compact eroded area, reseed and then secure RECP(s) firmly.
- Reposition or replace RECPs that have moved along the slope or channel and secure firmly.
- Replace damaged RECPs.

RE-3 v2010.9.9

References

Erosion Control Technology Council, 2006. Standard Specification for Rolled Erosion Control Products.

Ontario. Rolled Erosion Control Product (RECP) BMP 11.

Statewide Urban Design and Specifications, 2008. Design Manual 7E-7.

RE-4 v2010.9.9

Table 1. Rolled Erosion Control Product Comparison

Desired Time Scale Type		Туре	Product	Material	Max Slope Gradient	Max Channel Shear Stress ¹	
Description	Length	Code	Category	Composition	(H:V)	(lb/sq ft)	(Pa)
Short- Term 3-12 months		1A	Single-Net Erosion Control Blanket A Processed degradable natural and/or polymer fibers mechanically bound together by a single rapidly-degrading synthetic or natural fiber netting		3:1	1.50	72
		Open-Weave Textile		Processed rapidly-degrading natural or polymer yarns or twines woven into a continuous matrix			
		1B	Double-Net Erosion Control Blanket	Processed degradable natural and/or polymer fibers mechanically bound together between two rapidly-degrading synthetic or natural fiber nettings	2:1	1.75	84
Extended- Term	24 months	2A	Erosion Control Blanket	Processed slow-degrading natural or polymer fibers mechanically bound together between two slow-degrading synthetic or natural fiber nettings to form a continuous matrix	3:2	2.00	96
			Open-Weave Textile	Processed slow-degrading natural or polymer yarns or twines woven into a continuous matrix			

(continued)

RE-5 v2010.9.9

¹ Shear stress unvegetated rolled erosion control product can sustain without physical damage or excessive erosion (>12.7 mm (0.5 in) soil loss) during a 30-minute flow event, based on historical experience and large-scale testing of products with Manning's roughness coeffecients of 0.01-0.05. Test methods include ASTM D6459, or others deemed acceptable by the engineer.

Table 1. Rolled Erosion Control Product Comparison (continued)

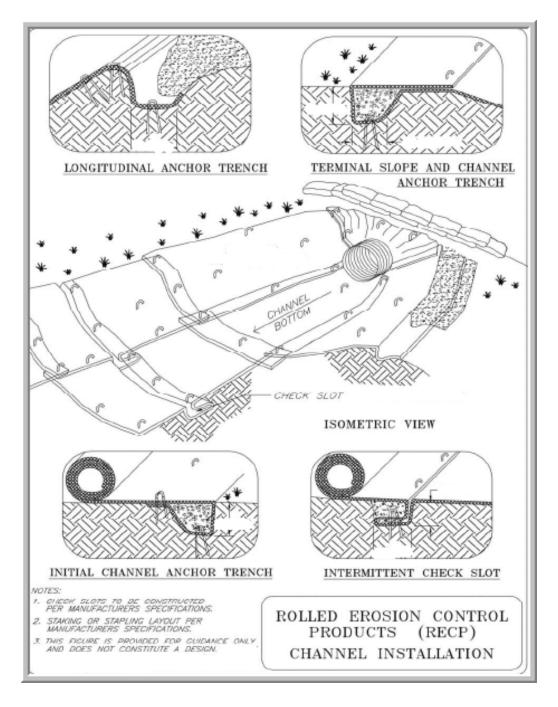
Desired Time Scale		Туре	Product	Material	Max Slope Gradient	Max Channel Shear Stress ²	
Description	Length	Code	Category	Composition	(H:V)	(lb/sq ft)	(Pa)
Long-Term	36 months	3A	Erosion Control Blanket Open-Weave Textile	Processed slow-degrading natural or polymer fibers mechanically bound together between two slow-degrading synthetic or natural fiber nettings to form a continuous matrix Processed slow-degrading natural or polymer yarns or twines woven into a continuous matrix	1:1	2.25	108
		4A		Non- or partially degradable synthetic fibers, filaments, nets,		6.00	288
Permanent		4B	Turf Reinforcement Mat	wire mesh, and/or other elements, processed into a	1:2	8.00	384
		4C	iviat	permanent, three-dimensional matrix of sufficient thickness		10.0	480

Source: Adapted from Erosion Control Technology Council, 2006. *Standard Specification for Rolled Erosion Control Products*.

RE-6 v2010.9.9

² Shear stress fully vegetated turf reinforcement mat can sustain without physical damage or excessive erosion (> 12.7 mm (0.5 in.) soil loss) during a 30-minute flow event, based on large-scale testing. Test methods include ASTM D6460, or others deemed acceptable by the engineer.

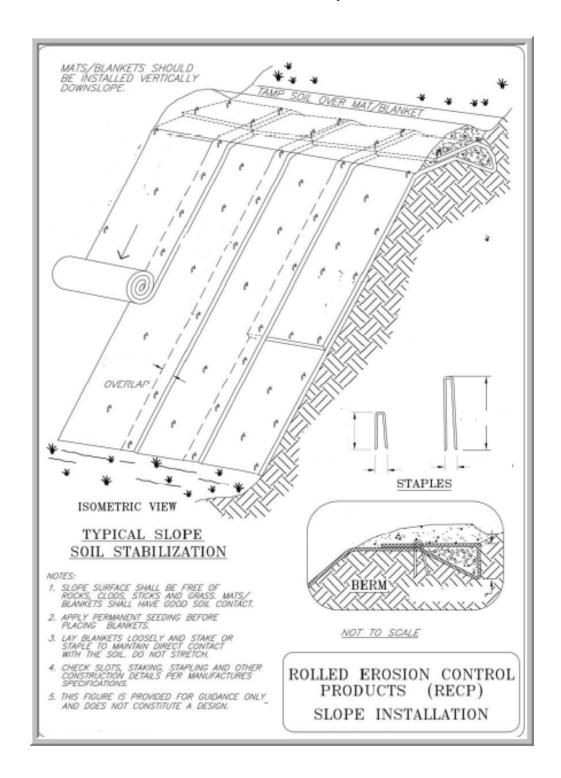
Exhibit 1. Rolled Erosion Control Product Channel Installation



Source: Ontario. Rolled Erosion Control Product (RECP) BMP 11.

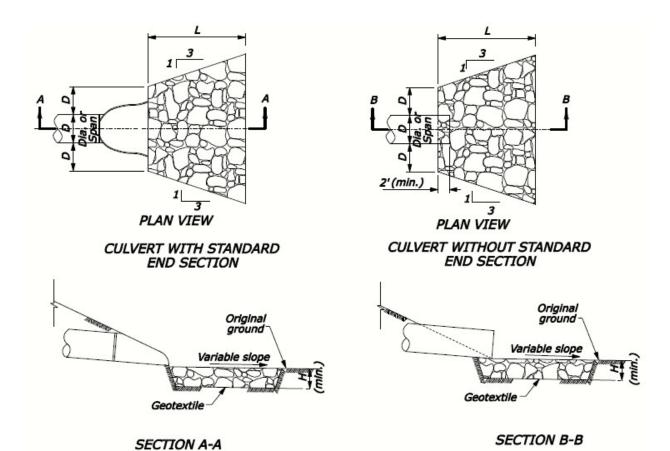
RE-7 v2010.9.9

Exhibit 2. Rolled Erosion Control Product Slope Installation



Source: Ontario. Rolled Erosion Control Product (RECP) BMP 11.

RE-8 v2010.9.9



PROTECTIVE APRON AT CULVERT OUTLET
WITHOUT DITCH

16 APPENDIX F



Initial Inspection of Erosion and Sediment Control

Project/	LDP Number: Da	ate:			
	etor/Representative:				
Evaluat	ed by Construction Inspector:				
A. Proj	ect Overview				
•	How Many Acres Total Does the Project Disturb				
•	Project Start Date: Project End Date	:			
•	Phase I start date?				
B. Pap					
•	*Does the project have a Land Disturbance Perm	nit?	Yes	No	N/A
•	*Is the SWPPP Notebook onsite?		Yes	No	N/A
C. Site	Preparation				
•	*Has the contractor installed temporary construc	tion			
	entrance(s) and are the vehicles using it?		Yes	No	N/A
•	*Is there a place for concrete wash-out, is it clear	rly marked			
	and do concrete trucks appear to be using it?		Yes	No	N/A
			••		37/1
•	*Is the site largely free of construction trash?		Yes	No	N/A
	(cups, lunch sacks, material packaging, etc.)				
	STT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	3.7	N.T.	NT/A
•	*Have perimeter sediment controls been installed	d?	Yes	No	N/A
_	*Hove my construction controls been installed m	on the plan	Vac	No	N/A
•	*Have pre-construction controls been installed p been installed?	er the plan	Yes	No	N/A
	been histalied?				
•	*Have easily recognizable indications of the con	etruction limite	Vac	No	N/A
•	been installed? (fencing, staking, physical barrie		168	110	1 \ / /A
	been instance: (reneing, staking, physical barrie	15)			
* Must	be "yes" or N/A in order for inspection to be "sat	isfactory"			
Must	be yes of 1471 in order for inspection to be sat	isractory.			
D. App	roval				
	ff initial for approval:				
	TT				
	Land disturbance work will proceed, as this s	ite has met all tl	ne initia	ıl standa	ırd
	requirements of the City of Overland Park E				
	•				
	Land disturbance work will not proceed as th				
	requirements of the City of Overland Park E				
	The deficiencies below must be corrected in	order to have a	satisfac	ctory ins	spection:
	1				
	2				
	3				
	4				
	5.				

Eros	ion and Sediment C	Control Inspection Report Form
Project Name and	Location	
Weather:		Pollution Control Measures (BMP) Checklist:
Rain in last 24 hrs (inches): Owner / Permittee: A. Current Construction / Active Areas:		Inlet Barrier (ie: gravel bags) Sediment Barriers (ie: ditch checks) Erosion Blankets, Hydromulch / Seed, etc Stabilized Construction Entrance Stream Crossings Seed / Sod Areas Sediment Basins & Discharge Locations Borrow Areas General Site Condition (trash, etc)
B. Problem Areas	/ Special Observations(*Note	e problem areas ONLY below*):
BMP	Location	Observations, Effectiveness, & Corrective Actions Ordered
C. Listing of Area measures initiated.		ons have permanently or temporarily stopped; stabilization
D. Have items note	ed on last inspection been cor	rected? Yes No (if No, Explain:)
-		encies only. Deficiencies must be corrected within 7 days, are considered to be in good working condition.
Date of Inspection		Inspector Signature

6 Goals ● No Sediment Leaves the Site ● Lines of Defense Everywhere & Always ● Cover Quickly

BMP INSPECTION CHECKLIST

General notes about Inspections:

- 1) Site inspected weekly
- 2) Within 24 hours of the end of a storm with rain >0.5"
- 3) Deficiencies corrected within 7 calendar days of inspection

Key elements to look at during inspection

- 1) Proper installation
- 2) Operation
- 3) Maintenance

<u>Inlet Barriers</u> (ie:sand bags, gutter buddies, straw wattles)

- $\sqrt{}$ Is the structure deteriorating
- $\sqrt{}$ Is sediment >1/2 the height of structure?
- $\sqrt{}$ Evidence of water/sediment getting **around or under** barrier?
- $\sqrt{}$ Are there other structures that require inlet barriers?

Sediment Barriers (ie:ditch checks)

- $\sqrt{}$ Are they trenched in or falling down?
- $\sqrt{}$ Evidence of sediment/water getting **around** or **under** barrier?
- $\sqrt{}$ Is sediment more than 1/2 height of structure?
- $\sqrt{}$ Are there areas where more sediment barriers are required or need extended?

Perimeter Control (ie: silt fence, straw wattles)

- $\sqrt{}$ Is all the off-site water being diverted where applicable?
- $\sqrt{}$ Evidence of water/sediment getting **around** or **under** barrier?
- $\sqrt{}$ Are there areas that need extended or additions to other locations?

Stabilized Construction Entrance

- $\sqrt{}$ Is gravel clean or getting filled with mud?
- √ Evidence of sediment being tracked off site onto public streets?

Stream Crossing

- $\sqrt{}$ Is crushed stone in place?
- √ Wash outs?

Final or temporary Stabilization area

- √ Mulches/Grasses-are areas thinning or have been disturbed? Re-application req'd?
- √ Straw Blankets-are they deteriorating and need replaced?

Borrow Areas

When on site or offsite borrow areas, which include contractor furnished, are to be excavated below ground elevations, an earth berm must be constructed around the borrow area to prevent runoff from entering excavation area

Sediment Basin

- Note the basin depth. Is the basin more than $\frac{1}{2}$ full of sediment from original design?
- $\sqrt{}$ Condition of basin side slopes
- √ Evidence of overtopping embankment
- $\sqrt{}$ Condition of outfall

General Site Conditions

- $\sqrt{}$ Trash barrels-any evidence of trash lying around site
- $\sqrt{}$ Location of porta potties
- √ Leaking vehicles
- √ Concrete Washouts Designated

<u>Quality Assurance Field Review – Erosion and Sediment Control</u>

Project/LDP Number:	Contractor/Representative:
Date:	Evaluated by Construction Inspector:
items of work in progress	description of the current phase of construction; major s; and general observations of effectiveness and rols, and stormwater discharge at outfalls).
B. Deficiencies Noted (I	List any specific deficiencies found during the review).
	nfall-required inspections been conducted by the compliance evaluation? Were noted deficiencies
Notice to Contractor: All det A record of corrected deficie	ficiencies must be corrected within 7 days unless otherwise noted. ncies must be maintained.

Final Inspection of Erosion and Sediment Control

	t/LDP Number: Date:			-
	ctor/Representative:			
Evalua	ted by Construction Inspector:			
Projec	t Overview			
•	How Many Acres Total Does the Project Disturb? Project Start Date Project End Date			
Paper	work			
•	Is the SWPPP Notebook onsite?	Yes	No	N/A
•	Has a copy of the SWPPP been given to City staff	Yes	No	
Final S	Site Preparation*			
•	Has the concrete wash-out area been cleaned?	Yes	No	N/A
•	Is the site free of construction trash? (cups, lunch sacks, material packaging, wood debris, etc.)	Yes	No	N/A
•	Have perimeter sediment controls been taken down?	Yes	No	N/A
•	Have indications of the construction limits been taken down? (fencing, staking, physical barriers)	Yes	No	N/A
•	Has all the dirt on the site been covered?	Yes	No	N/A
•	Have appropriate grasses/sod/trees been planted?	Yes	No	N/A
•	Have the plants accepted?	Yes	No	N/A
•	Have gutters and streets been cleaned of soil/trash?	Yes	No	N/A
•	Have all erosion controls been removed?	Yes	No	N/A
* Must	be "yes" or N/A in order for inspection to be "satisfactory".			
Appro City st	val aff initial for approval:			
	A Compliance certificate will be submitted, as this site has the City of Overland Park Erosion and Sediment Control			rements of
	A Compliance certificate will not submitted until all above Overland Park Erosion and Sediment Control standards have below must be completed in order to have a satisfactory in 1	ave been and aspection:	met. Th	
	2			
	3 4.			
	⊤.			

		AN	MENDMENT LOG
Project/LDI	P Number: _		
Contractor/	Representat	ive:	
Amend. No.	Date	Approved By	Describe Amendment in General (More details may be marked in the site map or noted in the daily inspection report)

Optonal Form for Amendment Log- Use for major modifications that need approval, use site map or current amendment log for minor modifications.

SWPPP MODIFICATION REPORT FORM

Date Submitted:	
Project/LDP Number:	
Contractor/Representative:	
Submit To: S-1 CITY	
City Engineer Address:	
Telephone: Facsimile:	
Sent Via: Facsimile	☐ Courier ☐ US Mail
Authorized Author:	Title:
Company:	Project Role:
Signature:	Date:
Modifications Required to the STORMWAT	TER POLLUTION PREVENTION PLAN:
Reasons for Modifications:	

PROJECT NAME

STORMWATER POLLUTION PREVENTION PLAN

Project Owner
Site Address
City, State Zip Code

Task: Do we want/need this? I do not think we do... since we have Stormwatch.

PROJECT RAINFALL LOG FORM

	YEAR: 20											
Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1												
3												
4												
5												
6												
7												
8												
9												
10												
11 12												
12												
13												
14												
15 16 17												
10					+							
18												
19												
25												
26												
27												
27 28												
29												
30												
29 30 31												
tials												