



**COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC
BARTLESVILLE, OKLAHOMA**

**FACILITY RESPONSE PLAN FOR ONSHORE OIL PIPELINES
DEPARTMENT OF TRANSPORTATION**

49 CFR 194

REVISED

FEBRUARY 2014

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Certification of Response Capabilities

Coffeyville Resources Crude Transportation, LLC (CRCT) believes that we are capable of responding to and remediating a worst case discharge in the response zones identified in this plan. We believe that we have the personnel, equipment, and resources (private, contracted, and identified) to effectively respond to a worst case discharge.

Any questions or comments to this plan should be directed to:
Coffeyville Resources Crude Transportation, LLC
P.O. Box 3516
Bartlesville, OK 74006
(918) 333-4111

NCP/ACP Certification

The CRCT pipeline division has reviewed all applicable area contingency plans and the National Contingency Plan. The applicable plans are the National Contingency Plan (40 CFR 300), EPA Region VI Regional Integrated Contingency Plan (May 2010), and EPA Region VII Integrated Contingency Plan (December 2012). CRCT certifies that the Facility Response Plan (FRP) is consistent with these plans.

Language of the Facility Response Plan

As all personnel responsible for carrying out this plan are English speaking, it will not be required that a second language plan be available.

Section 1 – Core Plan Summary, Qualified List of Individuals, and Response Zone Appendix Summaries



Core Plan Summary

Operator Name and Address

Coffeyville Resources Crude Transportation, LLC
 P.O. Box 3516 (mailing)
 411 NE Washington Blvd. (shipping)
 Bartlesville, OK 74006

and

Coffeyville Resources Crude Transportation, LLC
 P.O.Box 268 (Mailing)
 one mile east of Winfield, KS
 on Highway 160 (shipping)
 Winfield, KS 67156

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman (Ext. 5014)	(918) 333-4111		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Response Zones

1. Winfield City Lake, ten miles northeast of Winfield, in Cowley County, Kansas. Legal location is Sections 9, 10, 11, 12, 13, 14, 15, 16, 21, and 22, T-31S, R-5E.
2. Copan State Wildlife Management Area, immediately west and northwest of Caney in Montgomery County, Kansas. Legal location is Sections 2, 11, and 14, T-35S, R-13E.
3. Copan Lake and Copan State Wildlife Management Area, 6 to 12 miles north of Dewey, in Washington County, Oklahoma. Legal location is Sections 28 and 33, T-29N, R-13E; and Sections 3, 9, 10, 16, 17, and 20, T-28N, R-13E. Little Caney and Big Caney Rivers from approximately one mile south of Copan Lake Dam to six miles south of Bartlesville, Oklahoma. The area potentially affected is in Washington County, Oklahoma. The legal locations of affected areas are Section 31, T-28N, R-13E; Sections 6, 7, and 18, T-27N, R-13E; Sections 13, 24, 25, 35, and 36, T-27N, R-12E; Sections 1 and 12, T-26N, R-12E; and Sections 6, 7, 18, 19, 30, and 31, T-26N, R-13E. (See map in Section 9 of this plan).
4. Verdigris River and Upper Oologah Lake Area from approximately one mile northeast of Coffeyville, Kansas, to Nowata and Rogers County, on the Oklahoma Line located approximately five miles southeast of Nowata, Oklahoma. Area potentially affected includes Montgomery County, Kansas and Nowata County, Oklahoma. Kansas legal location is Sections 25 and 26, T-34S, R-16E; Sections 30 and 31, T-34S, R-17E; Sections 1 and 12, T-35S, R-16E; Sections 6 and 18, T-35S, R-17-E. Oklahoma legal location is Sections 16, 17, 20, 21, 30, 31, 32, and 33, T-29-N, R-16E; Sections 2, 10, 11, 14, 15, 20, 21, 22, 28, 29, 33, and 34, T-28N, R-16E; Sections 1, 3, 10, 11, 12, 13, 23, 24, 28, and 34, T-27N, R-16E; Sections 4, 5, 9, 10, 11, 12, 13, 14, 23, 24, 25, 26, and 35, T-26N, R-16E; Sections 2, 10, 11, 13, 14, 15, 19, 22, 23, 24, 25, 30, 34, 35, and 36, T-25N, R-16E; and Sections 18 and 19, T-25N, R-17E.
5. Caney River and Hulah Lake Area from approximately two miles southwest of Cedarvale, Kansas, to approximately four miles northeast of Bowring, Oklahoma. Area potentially affected is Chautauqua County, Kansas and Osage County, Oklahoma. Kansas legal description is Sections 12, 13, 29, 30, 32, and 33, T-34S, R-9E; Sections 1, 3, 4, 10, 2, and 11, T-35S, R-9E; and Sections 6, 7, 8, 16, and 17, T-35S, R-10E. Oklahoma legal description is sections 16, 17, 21, 22, 25, 26, 35, and 36, T-29N, R-10E; Section 1, T-28N, R-10E; and Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11, T-28N, R-11E.
6. Walnut River from approximately one mile west of Douglass, Kansas, to one mile south of Winfield, Kansas. Areas affected are portions of Butler and Cowley Counties. Kansas legal description is Sections 18, 19, 29, and 32, T-29S, R-4E; Sections 5, 7 8, 18, 19, 20, 29, 30, 31, and 32, T-30S, R-4E; Sections 6, 7, 18, 19, 30, and 31, T-31S, R-4E; Sections 1, 12, 13, 24, and 36, T-31S, R-3E; Section 1, T-32S, R-3E; and Sections 6, 7, 17, 18, 20, 29, 32, 33, and 34, T-32S, R-4E.

7. Slack Creek from approximately six miles east of Humboldt, Kansas, to approximately three miles east of Caney, Kansas. Areas affected are portions of Allen, Montgomery, Neosho, and Wilson Counties. Legal description is Sections 9, 16, 20, 21, 29, 31, and 32, T-26S, R-19E; Sections 6, 7, 12, 13, 23, 24, 26, 34, and 35, T-27S, R-18E; Sections 3, 4, 8, 9, 17, 18, 19, and 30, T-28S, R-18E; Sections 25 and 36, T-28S, R-17E; Sections 1, 2, 11, 14, 15, 22, 27, 28, 32, and 33, T-29S, R-17E; Sections 5, 7, 8, 18, and 19, T-30S, R-17E; Sections 24, 25, and 35, T-30S, R-16E; Sections 2, 10, 11, 15, 21, 22, 28, 32, and 33, T-31S, R-16E; Sections 5, 6, 7, 8, and 18, T-32S, R-16E Sections 13, 24, 25, 26, 34, and 35, T-32S, R-15E; Sections 3, 4, 9, 16, 17, 20, 29, 30, and 31, T-33S, R-15E; Section 6, T-34S, R-15E; Sections 1, 12, 13, 14, 23, 26, 27, 33, and 34, T-34S, R-14E; and Section 4, T-35S, R-14E.
8. Areas traversing Salt Creek, Birch Creek, Hominy Creek, Lucy Creek, and Solomon Creek from 3 miles north of Fairfax, Oklahoma to Choteau Creek and Bird Creek, located two miles northwest of Barnsdall, Oklahoma. Areas affected are portions Osage county located in Oklahoma. Oklahoma legal description is Sections 32, and 31, T-25N, R-11E; Section 6, T-24N, R-11E; Sections 1, 12, 11, 10, 9, 8, and 7, T-24E, R-10E; Section 12, T-24N, R-9E; Sections 1, 2, 3, 4, 5, and 6, T-24N, R-9E; Section 1, T-24N, R-8E; Section 35, 34, 33, 32, and 31, T-25N, R-8E; Sections 36, 35, 26, 27, 28, 29, and 30, T-25N, R-7E; Sections 25, 26, 27, 22, and 21, T-25N, R-6E.
9. Mud Creek and Little Caney River from approximately two and one half miles northeast of Caney, Kansas including Copan Lake, Copan State Wildlife Management Area, and Caney River in Washington County, Oklahoma to five miles west of Dewey, Oklahoma. Sand Creek from five miles west of Dewey, Oklahoma to three miles northwest of Barnsdall, Oklahoma. Kansas legal description is Sections 4, 9, 8, and 17, T-35S, R-14E. Oklahoma legal description is Sections 16, 21, 20, and 19, T-29N, R-13E; Sections 24, 25, 26, and 35, T-29N, R-12E; Sections 1, 12, 13, 24, 25, 36, and 35, T-28N, R-12E; Sections 2, 3, 10, 9, 16, 21, 20, 29, 32, and 31, T-27N, R-12E; Sections 6 and 7, T-26N, R-12E; Sections 12, 13, 24, 23, 22, 27, 28, and 33, T-26N, R-11E; Sections 4, 9, 16, 21, 28, 29, T-25N, R-11E.

Note: All Pipelines listed in this Core Plan Summary transport only crude oil.

Response Zone Appendix Summary (Zone # 1)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 1 Description

The Valley Center Station to Hooser Station consists of one line section of 6-inch pipeline, identified as the "Valley Six Inch". This line section crosses near the center of Winfield City Lake, in Winfield Kansas. At the north side of the lake the pipeline begins to cross the lake in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 15, T-31S, R-5E. At the south side of the lake the pipeline exits in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 15, T-31S, R-5E.

One section of 4-inch pipeline crosses at the extreme east end of the lake. At the north side of the lake the pipeline begins to cross the lake in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 11, T-31S, R-5E. At the south side of the lake the pipeline exits in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 14, T-31S, R-5E. These two line sections are the only ones which would affect this response zone.

Response Zone # 1 Location

Winfield City Lake is 10 miles northeast of Winfield in Cowley County, Kansas. The legal location is Sections 9, 10, 11, 12, 13, 14, 15, 16, 21, and 22, T-31S, R-5E (See map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water and a state recreational area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 to 40.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Winfield pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Bartlesville, Oklahoma, and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are required, Haz-Mat Response Inc., of Olathe, Kansas, is the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 2)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 2 Description

The Hooser Station to Broome Station consists of one line section of 8-inch pipeline. This pipeline, identified as the "Hooser Eight Inch", is located approximately one mile north of the north boundary line of the Copan State Wildlife Management area (see map in Section 9). In the event of a substantial discharge, crude oil could reach the Little Caney River and move south into the Copan State Wildlife Management Area.

The location of this section of pipeline which could affect the wildlife area, in the event of a spill, would be from the NW ¼ of the NW ¼ of Section 33, T-34S, R-13E extending in a line due east to the NE ¼ of the NE ¼ of Section 32, T-34S, R-14E.

This is the only pipeline section which would affect this response zone.

Response Zone # 2 Location

The Copan State Wildlife Management Area is located immediately west and northwest of Caney in Montgomery County, Kansas. The legal location is Sections 2, 11, and 14, T-35S, R-13E (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a state recreation area and a state wildlife management area. The Little Caney River flowing into the wildlife management area is also a source of public drinking water for the city of Caney, Kansas (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 to 40.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the volume of the largest breakout tank in the zone and applying a 50 percent prevention credit for the breakout tank within adequate secondary containment. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned

equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are required, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 3)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 3 Description

The Bartlesville Station to Broome Station pipeline section, identified as the "Bartlesville Eight Inch," consists of one 8-inch pipeline section that parallels and crosses the Copan State Wildlife Management Area and peripheral portions of Copan Lake. In the event of a release, crude oil could enter this area (see map in Section 9).

The location of the line section which could affect this response zone starts at the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 17, T-29N, R-13E. The line extends south to the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 20, T-28N, R-13E.

This is the only section of pipeline which would affect this area of the response zone.

Other pipelines affecting this section of the response zone consists of two pipeline sections. The first section is approximately nine miles of 6-inch pipeline and three miles of 4-inch pipeline known as the Bartlesville Station to Broome Station 4 and 6-inch pipeline segment. This pipeline section parallels the river at several locations and crosses the Big Caney River at two locations and the Little Caney River at one location. The location of the Big Caney River crossings are SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 24, T-27N, R-12E and the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 1, T-27N, R-12E. The location of the Little Caney River crossing is the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 31, T-28N, R-13E.

A second line section affecting this section of the response zone is the West Bartlesville to Bartlesville 6-inch pipeline. This pipeline crosses the Big Caney River at the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 1, T-26N, R-12E.

The location of the pipeline sections which could affect this area of the response zone would be as follows:

The Bartlesville Station to Broome Station four and six-inch segment from the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 6, T-26N, R-13E extending north to the NW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 31, T-28N, R-12E.

The West Bartlesville Station to Bartlesville Station segment from the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 33, T26N, R-12E extending east to the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 6, T-26N, R-13E.

The pipeline segments within this response zone are currently out-of-service. They have been

drained and purges and currently do not represent a threat of release. However, should operations be resumed in the future and in the event of a release at any of these locations, crude oil could enter the river of this response zone. These line sections would be the only ones affecting this area of the response zone.

Response Zone # 3 Location

The Copan Lake and the Copan State Wildlife Management Area is located six miles north of Dewey in Washington County, Oklahoma. This section of the response zone runs approximately six miles north to the Kansas State line. The legal location is Sections 28 and 33, T-29N, R-13E, and Sections 3, 9, 10, 16, 17, and 20, T-28N, R-13E (see map in Section 9).

The location of the Southern section of the response zone would be the Little Caney River starting at approximately one mile below Copan Lake dam NE ¼ of Section 31, T-28N, R-12E, to the point where the Little Caney River intersects with the Big Caney River at the NE ¼ of Section 7, T-27N, R-12E then south approximately 12 miles to a point approximately five miles south of the Bartlesville, Oklahoma city limits (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

When this segment of pipeline is in service, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreation area, and a state wildlife management area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline in the past (and presumably in the future should operations resume on this out-of-service section) is sweet crude oil, at approximately 35.0 to 40.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released when this segment is in service based on the line fill calculation of the pipeline in this zone. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 4)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 4 Description

Pipelines in this response zone consists of two 16-inch crude oil pipelines and one 12-inch crude oil pipeline. The pipelines are identified as the Broome Station to Coffeyville Station, also known as the East Tank Farm, 12-inch pipeline, the Broome Station to Coffeyville Station 16-inch pipeline, and the Coffeyville Station to the Coffeyville Refinery 16-inch pipeline. The Broome Station to Coffeyville Station 12-inch pipeline and the Coffeyville Station to the Coffeyville Resources Refining & Marketing, LLC (CRRM) Refinery 16-inch line share common right-of-way where they cross the Verdigris River at SW ¼ of Section 30, T-34S, R-17E. The Broome Station to Coffeyville Station 16-inch pipeline crosses the Verdigris River at SE ¼ of Section 23, T-34S, R-16E. In the event of a release, crude oil could enter the Verdigris River and Oologah Lake.

The location of the pipeline section of the Broome Station to Coffeyville Station 16-inch pipeline which would affect this zone is from the SW ¼ of the SW ¼ Section 23, T-34S, R-16E extending east to the NE ¼ of the NE ¼ of Section 25, T-34S, R-16E.

The location of the pipeline sections of the Broome Station to Coffeyville Station 12-inch pipeline and the Coffeyville Station to the CRRM Refinery 16-inch pipeline which could affect this zone from the SE ¼ of the SE ¼ of Section 25, T-34S, R-16E extending east to the SE ¼ of the NE ¼ of Section 30, T-34S, R-17E.

These three pipeline sections are the only ones which would affect this response zone.

Response Zone # 4 Location

This zone starts approximately ½ mile north of Coffeyville, Kansas, and extends down the Verdigris River into the upper portion of Oologah Lake at the intersection of Nowata and Rogers Counties, Oklahoma. This zone covers an area of approximately 30 miles of river and 3 square miles of lake (see map Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreation area, and a state wildlife management area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sour crude oil, at approximately 30.0 to 34.0 gravity range.

(b) (3), (b) (7)(F)

[REDACTED] a worst case discharge, an estimated (b) (7)(F), (b) (3) [REDACTED] of crude oil could be released based on the volume of the largest breakout tank in the zone and applying a 50 percent prevention credit for the breakout tank within adequate secondary containment. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 5)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 5 Description

The pipeline in this response zone consists of an 8-inch crude oil pipeline known as the Hooser Station to Broome Station 8-inch pipeline.

The 8-inch line crosses the Big Caney River approximately two miles SE of Cedarvale, Kansas, NW ¼ of Section 19, T-34S, R-9E. Crude oil entering the river at this point could travel down river approximately 15 miles and enters Hulah lake (see map in Section 9).

The location of the section of the Hooser Station to Broome Station 8-inch pipeline which could affect this zone is from the SW ¼ of the SW ¼ of Section 13, T-34S, R-8E extending east to the NE ¼ of the NE ¼ of Section 19, T-34S, R-9E.

This pipeline section is the only one which could affect this response zone.

Response Zone # 5 Location

This zone starts approximately 2 miles southeast of Cedarvale, Kansas, and extends down river approximately 15 miles before entering Hulah Lake. The lake is approximately 3 square miles in area (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreation area, and a state wildlife management area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the volume of the largest breakout tank in the zone and applying a 50 percent prevention credit for the breakout tank within adequate secondary containment. Methods used to calculate the potential worst case discharge can be found in Section 9 of this plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company-owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 6)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 6 Description

The pipeline in this response zone consists of a 6-inch crude oil pipeline known as the Valley Center Station to Hooser Station 6-inch pipeline. This line crosses the Walnut River approximately one mile west of Douglass, Kansas, SE ¼ of Section 18, T-29S, R-3E. A crude oil release on or near the river could result in contamination of the Walnut river which is a recreation area (see map in Section 9).

The location of the Valley Center Station to Hooser Station 6-inch pipeline section which could affect this zone is from the NE ¼ of the NE ¼ of Section 13, T-29S, R-3E extending southeast to SE ¼ of the NE ¼ of Section 19, T-29S, R-4E.

This is the only pipeline section which would affect this response zone.

Response Zone # 6 Location

This zone starts approximately one mile west of Douglass, Kansas, and extends down river approximately 16 miles to one mile south of Winfield, Kansas (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a state recreation area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such

a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 7)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 7 Description

The pipeline in this response zone consists of a 8-inch crude oil pipeline known as the Humboldt Station to Caney Junction 8-inch pipeline. This pipeline is in a right-of-way corridor with three or four other pipelines operated by Magellan Pipeline Company.

This pipeline crosses various rivers and creeks 14 times between Humboldt Station and Broome Station including Slack Creek, Turkey Creek (four locations), the Neosho River, Chetopa Creek, Little Chetopa Creek, Dry Creek, Salt Creek, Prior Creek, the Verdigris River, the Elk River, and Onion Creek.

Summary of 14 Water Crossings for Response Zone #7

Slack Creek	T-26S	R-19E	SE Section 9
Turkey Creek	T-27S	R-18E	NE Section 26
Neosho River	T-27S	R-18E	SW Section 26
Turkey Creek	T-27S	R-18E	NE Section 34
Turkey Creek	T-28S	R-18E	NE Section 9
Turkey Creek	T-28S	R-17E	NE Section 17
Chetopa Creek	T-29S	R-17E	NW Section 11
Little Chetopa Creek	T-29S	R-17E	NW Section 33
Dry Creek	T-30S	R-16E	NE Section 25
Salt Creek	T-31S	R-16E	SW Section 2
Prior Creek	T-31S	R-16E	SW Section 15
Verdigris River	T-31S	R-16E	SE Section 32
Elk River	T-32S	R-16E	NW Section 18
Onion Creek	T-33S	R-14E	SE Section 30

In the event of a release at any of these locations, crude oil could enter the rivers or creeks of this response zone.

The location of the Humboldt Station to Broome Station 8-inch pipeline section which could affect this zone is from the NE ¼ of the SE ¼ of Section 9, T-26S, R-19E extending southwest to NW ¼ of the NW ¼ of Section 4, T-35S, R-14E.

This is the only pipeline section which would affect this response zone.

Response Zone # 7 Location

This zone starts approximately six miles east of Humboldt, Kansas, and extends southwest approximately 63 miles, to three miles east of Caney, Kansas (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water and a state recreation area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 8)

Operator Name and Address

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 8 Description

The pipeline in this response zone consists of an 8-inch crude oil pipeline known as Kelley Station to Barnsdall Station 8-inch pipeline. This pipeline is in a right-of-way corridor with three other pipelines operated by Magellan Pipeline Company.

This pipeline crosses various rivers and creeks 18 times between Kelley Station and Barnsdall Station including Solomon Creek (two locations), Lucy Creek, Gray Horse Creek, Hominy Creek (two locations), Little Hominy Creek (four locations), Birch Creek (three locations), Red Eagle Branch (two locations), Bird Creek, and Choteau Creek.

Summary of 18 Water Crossings for Response Zone #8

Solomon Crk (1 & 2)	T-25N	R-6E	SE Section 21
Gray Horse Creek	T-25N	R-7E	SE Section 30
Lucy Creek	T-25N	R-7E	SE Section 30
Hominy Creek (1)	T-25N	R-7E	SW Section 27
Hominy Creek (2)	T-25N	R-7E	SE Section 27
Little Hominy Crk (1)	T-25N	R-8E	NE Section 31
Little Hominy Crk (2)	T-25N	R-8E	NE Section 32
Little Hominy Crk (3)	T-25N	R-8E	NW Section 33
Little Hominy Crk (4)	T-25N	R-8E	SW Section 35
Birch Creek (1)	T-24N	R-9E	NW Section 4
Birch Creek (2)	T-24N	R-9E	SE Section 3
Birch Creek (3)	T-24N	R-9E	SW Section 2
Birch Creek (4)	T-24N	R-10E	NE Section 9
Red Eagle Branch (1)	T-24N	R-10E	NE Section 11
Red Eagle Branch (2)	T-24N	R-10E	NW Section 12
Bird Creek	T-24N	R-11E	SW Section 6
Choteau Creek	T-25N	R-11E	SE Section 31

In the event of a release at any of these locations, crude oil could enter the rivers or creeks of this response zone.

The location of the Kelley Station to Barnsdall Station 8-inch pipeline section which could affect this zone is from the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 20, T-25N, R-6E to the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of

Section 32, T-25N, R-11E.

Response Zone # 8 Location

This zone starts approximately three miles north of Fairfax, Oklahoma, and extends approximately 30 miles east to approximately three miles north of Barnsdall, Oklahoma (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it traverses recreational surface water bodies and waterways that serve as sensitive habitat areas (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil at approximately 35.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Response Zone Appendix Summary (Zone # 9)**Operator Name and Address**

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Qualified Individuals List

Note: List is included in the Core Plan Summary located at the beginning of Section 1.

Response Zones

Note: Legal descriptions are included in the Core Plan Summary located at the beginning of Section 1.

Response Zone # 9 Description

The pipeline in this response zone consists of an 8-inch crude oil pipeline known as Barnsdall Station to Caney Junction, 8-inch pipeline. This pipeline is in a right-of-way corridor with three other pipelines operated by Magellan Pipeline Company. In addition, Zone 9 contains a segment of pipeline known as the Caney Junction to Broome Station 8-inch pipeline.

At Caney Junction, the crude oil flow rate from the Barnsdall Station to Caney Junction 8-inch pipeline combine with the flow rate from the Humboldt Station to Caney Junction 8-inch pipeline; therefore, the Caney Junction to Broome Station 8-inch pipeline that crosses Hafer Run has a higher flow rate than the Barnsdall Station to Caney Junction 8-inch pipeline. (b) (3), (b) (7)(F)

(b) (3), (b) (7)(F)

The Barnsdall Station to Caney Junction line and Caney Junction to Broome Station lines cross various rivers and creeks 10 times including Hafer Run (two locations), Mud Creek, Little Caney River, Caney River, Butler Creek, Turkey Creek, Sand Creek, Little Rock Creek, and Pennel Creek.

Summary of 10 Water Crossings for Response Zone #9

Pennel Creek	T-25N	R-11E	NW Section 28
Little Rock Creek	T-26N	R-11E	NE Section 23
Sand Creek	T-26N	R-11E	NE Section 13
Butler Creek	T-27N	R-12E	NE Section 29
Bar-Dew Lake Inlet	T-27N	R-12E	NE Section 16
Caney River (1)	T-27N	R-12E	NW Section 2
Caney River (2)	T-28N	R-12E	SE Section 35
Long Lake Inlet	T-28N	R-12E	SW Section 25
Little Caney River (1)	T-29N	R-13E	NE Section 35
Little Caney River (2)	T-29N	R-13E	NW Section 35
Little Caney River (3)	T-29N	R-13E	SE Section 19
Mud Creek	T-35S	R-14E	NE Section 17
Hafer Run (1 & 2)	T-35S	R-14E	NW Section 9

In the event of a release at any of these locations, crude oil could enter the rivers or creeks of this response zone.

The location of the Barnsdall Station to Caney Junction 8-inch pipeline section which could affect this zone is from the SW ¼ of the NW ¼ of Section 32, T-25N, R-11E extending northeast to NW ¼ of the SE ¼ of Section 4, T-35S, R-14E. The location of the Caney Junction to Broome Station 8-inch pipeline section which could affect this zone is from the NW ¼ of the SE ¼ of Section 4, T-35S, R-14E extending northwest to NW ¼ of the NW ¼ of Section 4, T-35S, R-14E.

Segments of pipeline associated with Zone 2 and 3, consisting of the Hooser Station to Broome Station 8-inch pipeline, Broome Station to Coffeyville Station 12-inch pipeline, and the 8-inch Humboldt line traverse the area of Zone 9 which includes Copan Lake Protection Area, peripheral portions of Copan Lake, and tributary waterways of Little Caney River.

Response Zone # 9 Location

This zone starts approximately three miles north of Barnsdall, Oklahoma and extends approximately 35 miles northeast to Caney Junction, located approximately two and three quarter miles northeast of Caney, Kansas. From Caney Junction, the zone extends approximately one mile west-northwest to Broome Station (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water and a state recreation area (see Table 1 in Section 9).

Type of Oil and Volume of a Worst Case Discharge

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity range.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone. Methods used to calculate the potential worst case discharge can be found in Section 9 of this Plan.

Certification of Response Capabilities

While CRCT will rely primarily on Bartlesville pipeline facility employees and company owned equipment to respond to releases of crude oil, agreement has been reached with the CRCT pipeline offices at Winfield and Plainville, Kansas, to provide manpower and equipment necessary to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.

In the event that outside contractors are needed, Haz-Mat Response Inc., of Olathe, Kansas, will be the primary contracted responder.

A listing of response capabilities and response equipment available can be found on Table 4-1-B in Section 9 of this Plan.

Section 2 - Notification Procedures



Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the Coffeyville Refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals. At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations.

Note: The cell number for the Qualified Individual will be considered as the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman (Ext. 5014)	(918) 333-4111		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Order of Responsibility for Notification

The Operations Manager shall be responsible for the reporting of crude oil spills and pipeline related accidents. During the absence of the manager, contact the following available employee listed highest on the area responsibility list will be responsible. Qualified Individuals - Washington, Nowata and Osage counties in Oklahoma, and Allen, Butler, Chautauqua, Cowley, Montgomery, Neosho, Sedgwick, and Wilson counties in Kansas:

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman	(918) 333-4111 (Ext. 5014)		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

24 Hr Numbers for Qualified Individuals, Emergency Response Personnel, and Response Contractors

Cell phones will be considered the 24-hour emergency numbers for Qualified Individuals and CRCT Emergency Response team members. The following is a list of cell phone numbers to be used when contacting Qualified Individuals or Response Team members.

<u>Qualified Individuals</u>	<u>24-hour Cell Phone Number</u>
Tom Adamson	(b) (6)
John Bullen	
Dennis Young	

Darren Brake

Mike Cogdill

Response Team Members

Gary Alspach

Randy Finuf

Steve French

Travis Long

Dan Archer

Mike Marshall

Roger Dobbins

Kevin Greenfield

Chance Willig

Colter Orcutt

Steve Lankton

Greg Mugler

David Griggs

Kevin Thomas

David Willman

Mike Dean

Kent Gibson

(b) (6)



Note: All Qualified Individuals and Response Team members who have been issued cell phones will be required to carry them at all times.

Primary Response Contractor

The primary response contractor will be Haz-Mat Response Inc., in Olathe, Kansas. The 24-hour telephone number for Haz-Mat Response Inc. is: (800) 229-5252.

Reporting of Oil Discharges to Federal, State and Local Agencies

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: 1 (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value

of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.

- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- name and address of the operator
- name and telephone number of the reporter
- the location of the discharge
- the time of the discharge
- the fatalities and personal injuries, if any

All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the US Environmental Protection Agency (EPA), it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA. Region VII office at: (913) 281-0991.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

Corp of Engineers

Any discharge of crude oil that would affect the Copan and Hulah Lake areas (Zones 2, 3, 5, and 9) must be reported to the Corp of Engineers at: (918) 532-4334. Discharge affecting Oologah Lake (Zone 4) must be reported to: (918) 443-2250.

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Cowley, Butler, or Chautauqua County, Kansas, contact the Wichita office at: (316) 337-6020.

If the crude oil discharge occurs in Allen, Montgomery, Neosho, or Wilson County, Kansas, contact the Chanute office at: (620) 431-2390.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is: (785) 296-1679. The regular call to the Wichita or Chanute office should also be made the next business day.

Persons reporting a discharge should have the following information available:

- Name of pipeline
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Additional Kansas telephone numbers that should be called in a serious situation are as follows:

<u>Agency</u>	<u>Telephone Number</u>
Montgomery County Sheriff	(620) 330-1260
Cowley County Sheriff	(620) 221-5555
Butler County Sheriff	(800) 794-0190
Chautauqua County Sheriff	(620) 725-3108
Allen County Sheriff	(316) 365-1400
Neosho County Sheriff	(620) 244-3888
Wilson County Sheriff	(620) 378-3622
Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Local Emergency Planning Committee	
(Cowley County)	(620) 221-0470
(Montgomery County)	(620) 330-1260
(Chautauqua County)	(620) 429-1857
(Butler County)	(620) 733-9796
(Allen County)	(620) 365-1400
(Neosho County)	(620) 244-3888
(Wilson County)	(620) 378-4455
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233

Caney Kansas Water Dept.	(620) 879-9802 or 879-2911
Winfield Water Dept.	(620) 221-5600
Montgomery Co. Fire, Ambulance	911
Winfield Fire, Police, Ambulance	911
Chautauqua Co. Fire, Ambulance	(620) 758-2266
Butler Co. Fire, Ambulance	(620) 746-2322
Cowley Co. Fire, Ambulance	(620) 221-2300
Allen Co. Fire, Ambulance	911
Neosho Co. Fire, Ambulance	911
Wilson Co. Fire, Ambulance	911

State of Oklahoma

Crude oil discharges in the state of Oklahoma may have to be reported to two different State agencies.

All crude oil discharges to navigable water or discharges in excess of ten barrels to land must be reported to the Oklahoma Corporation Commission Bristow office at: (918) 367-3396.

Crude oil discharges of ten barrels or more on land or any amount on a waterway, must be reported to the Oklahoma Department of Environmental Quality (ODEQ) at: (800) 522-0206. The local ODEQ number, which should also be called, is: (918) 807-0997.

Osage Nation

If a spill in any amount occurs in Osage County, on land or water, it must be reported to the Osage Indian Agency at: (918) 287-5555 and the Osage Nation Environmental and Natural Resources Department at: (918) 287-5333.

Persons reporting a discharge to either State or local agency should have the following information available:

- Name of pipeline
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Additional Oklahoma telephone numbers that should be called in a serious situation are as follows:

<u>Agency</u>	<u>Telephone Number</u>
Washington County Sheriff	(918) 337-2800
Washington Co. Fire, Police, Ambulance	911
Osage Co. Sheriff	(918) 287-3131
Osage Co. Fire	(918) 287-4210
Nowata Co. Sheriff	(918) 273-2287
Nowata Co. Fire Dept.	(918) 273-3532
Nowata Co. Ambulance	(918) 273-1033
Highway Patrol (Vinita)	(918) 256-3388
Local Emergency Planning Committee	
(Washington County)	(918) 336-2710
(Osage County)	(918) 287-3131
(Nowata County)	(918) 273-2345
Oklahoma One Call	(800) 522-6543
Bartlesville Water Dept.	(918) 338-4282
Copan Water Dept.	(918) 532-4114
Barnsdall Water Dept.	(918) 847-2506
Pawhuska Water Dept.	(918) 287-3260
Nowata Water Dept.	(918) 273-3538
Osage County Rural Water Dist.	(918) 695-7402
Washington County Rural Water Dist.	(918) 336-0500
Hulah Water Dist.	(918) 336-0008

Information To Be Provided In Notification

Prior to making initial and follow-up notifications to required agencies, the Qualified Individual will obtain the following information:

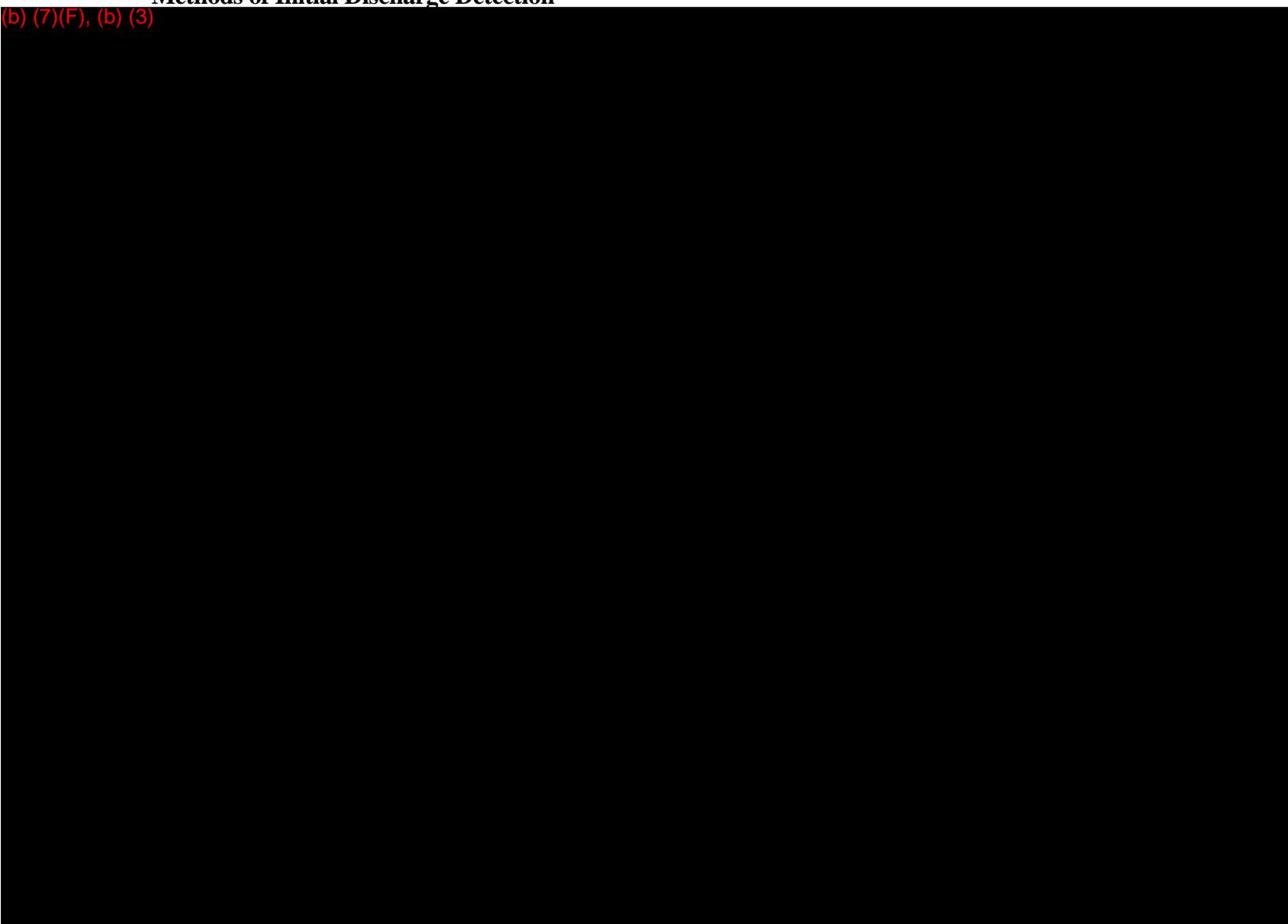
- Name of pipeline
- Type of oil involved
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Section 3 - Spill Detection and On-Scene Spill Mitigation Procedures



Methods of Initial Discharge Detection

(b) (7)(F), (b) (3)



Response Procedures to Mitigate or Prevent Discharge

Response Actions for a Substantial Threat of Discharge

While it is imperative that the CRCT response team responds to a release of crude oil as soon as possible, it is also important that we be able to identify events and conditions which could present a substantial threat of a worst case discharge. The procedures to follow to prevent or mitigate such an event can be found in Vol. III, Section 4, Pages 4-31 & 4-32 of the Operations and Emergency Procedure Manual.

Report of Discharge

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the pipeline foreman:

- Name, address, and phone number of the person reporting the discharge

- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

Plan of Action

If the release is of a magnitude requiring a major response, the Incident Command System will be activated. The pipeline foreman is responsible for oil clean-up and pipeline repairs. Upon receiving a leak report, the foreman will immediately go to or dispatch an authorized representative to the leak area. Oil discharges that create an emergency condition will require the foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a waterway, boom will be used to contain the discharge.
- The foreman and the Qualified Individual will make the decision to call in outside help if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by the vacuum truck and transported to a temporary holding tank.
- The foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or removing and disposing of contaminated soil).

Containment and Exclusion Techniques

The following pages outline the containment and exclusion techniques which can be used in crude oil discharge response operations.

There are six basic techniques which, when used singly or in combination, can help limit the spread of crude oil spilled or to exclude it from sensitive areas. These include the use of:

- Dams
- Berms (dikes)
- Culvert blocking
- Interception barriers
- Booming
- Sorbents

Dams

There are two types of dam construction appropriate for oil spill containment:

- The complete blocking of an actual or potential drainage course (a **blocking dam**)
- The blocking of oil flow while letting water continue downslope (an **underflow dam**)

The blocking dam can be built across the drainage course to form a holding pond or reservoir to contain the oil and water. Water trapped behind the dam can be pumped out by placing the suction (intake) hose at the base of the dam on the upstream side, leaving oil trapped behind the dam for subsequent removal. The discharge (outlet) hose should be placed on the downstream side. Trapped water can also be moved across the dam with one or more siphons.

- a) **Blocking dams.** Blocking dams should be constructed only across drainage courses which have little or no water flow. The dam should be situated at an accessible point where there are high banks on the upstream side. It must be well keyed into the banks and buttressed to support the oil and water pressure. It can be constructed from several types of materials:
- earth
 - snow
 - sandbags
 - sheets of metal or wood
 - any material that blocks flow

The underflow dam can be constructed by placing pipes of appropriate size on the stream bed and building an earthen or sandbag dam over the pipe across the waterway. The diameter of the pipe will depend on the flow rate of the stream and the depth of the water behind the dam.

- b) **Underflow Dams.** For waterways with higher stream flow rates, an underflow dam can be used (Figures 3-1 and 3-2). If the dam is to be effective, the surface of the oil must always be below the lip of the dam, and the oil/water interface must be above the top of the underflow opening. To maintain the proper level, it is necessary to remove some of the water, usually through horizontal valves or inclined pipes as illustrated.

Berms

Unlike dams, which are designed either to block flow completely or to block flow with a provision for underflow, berms are constructed to control flow by diversion or overflow. For creeks and rivers, overflow berms (weirs) or diversion berms can be constructed from materials in the flood plains; for terrestrial spills, earth berms can be built to divert or impede flow. In fast moving streams, berms may have to be continually maintained.

- a) **Diversion Berms.** Diversion berms could be constructed from flood plain materials on large rivers (Figure 3-3). In most situations, they should be constructed in a series, connected with short pieces of boom in a pattern that forces oil to flow into a containment pit, side channel, or similar feature for temporary storage. The spacing between each berm should allow water to flow under the connecting boom while forcing oil to the side. The size and angle of the berms will be dictated by stream velocity, channel size, and oil spill volume. As these factors increase, the required size of the berms will increase, and the angle between the upstream side of

- the berms and the stream bank will decrease.
- b) **Overflow berms (weirs).** The purpose of overflow berms or weirs is to reduce water velocity by widening and deepening the stream. They can be constructed in smaller streams or in the side channels of larger rivers (Figure 3-4).
 - c) **Overflow berms** constructed across the entire channel. Materials should be excavated from the upstream side of the berm, creating a pool where stream flow will be retarded, permitting boom deployment and oil removal upstream from the berm. The required height and width of the berm will increase with stream depth and water velocity.
 - d) **Berms built on land.** In most cases, berms constructed on land act as barriers to spill flow. They may also be used to divert the flow of oil in a different direction so as to protect a sensitive area. A windrow of materials along a road or highway can prevent a spill from crossing the road or divert it into a storage area (Figure 3-5). Berms constructed around sensitive areas can exclude oil from them.

Culvert Blocking

The blocking of culverts is an important part of the overall contingency plan because the pipeline parallels highways and roads for much of its length.

There are several ways to block culverts. Certainly the most effective way is to block them with earthen materials, to pile dirt, sand, or a similar material over the end of the culvert. Placing sandbags or sheets of plywood over the end will also stop or retard flow (Figure 3-6).

Interception Barriers

Interception barriers consist of trenches, ditches, and sheets of metal or plywood that intercept subsurface flow of spilled oil. Subsurface flow may be through a permeable layer that may or may not be transporting groundwater. It may also be between the vegetation mat and the ground surface. Trenches and sheet barriers may be used separately or together.

The direction of subsurface flow must be determined before a barrier is installed. First, a surface reconnaissance of the area should be made. There may be pools of oil on the ground, dying or dead vegetation, or an odor of oil. If there are gullies that provide exposed banks, the banks should be examined closely for seeping oil. The entire area of suspected subsurface oil flow should be checked. Probe rods, hydrocarbon sniffers, and driving equipment can be used. If unavailable, the boundaries of subsurface contamination can often be located by the "poke and sniff" method. Subsurface geology may permit oil to flow in directions that do not coincide with surface gradients. Smaller leaks will be difficult and may not be located for some time.

- a) **Trenches.** The use of trenches can be an effective technique for containing the flow of oil through a subsurface layer. Care should be exercised in selecting a site. The trench should be excavated at right angles to subsurface flow. Local terrain may dictate that the trench be angled upslope at either end. The depth of the trench depends upon the depth of the oil. The trench should extend about 18-inches below the oil level. The downstream side and bottom of the trench should be covered

with visqueen or a similar impermeable material. The trench should be wide enough to accommodate the method of oily water removal that is anticipated. If a floating skimmer is to be used, a portion of the trench will have to be wide enough for the skimmer. The trench need not be widened for sorbents and/or a pump with a floating skimming head.

Booming

There are two types of boom deployment that apply to potential oil spills along the pipeline route:

- To block the flow of oil
- To divert oil to a collection point

In order for any of the boom discussed below to be effective during freeze up, winter, or break up conditions, they will require 24-hour maintenance (for example, ice will have to be continually broken and removed).

Boom deployed across the inlet stream to a lake may prevent oil from reaching the lake itself. Boom the inlet and provide preventive boom further into the lake if necessary or containment booming along the shore to minimize impact on the lake. However, booming the outlet of a lake is generally more practical because the surface of the lake provides a large storage area, and the decrease in current velocity makes the spill easier to deal with. To prevent a spill from spreading once it has reached a lake, two boats towing a long boom can completely encircle the slick.

Boom deployed across a river or stream will usually contain the flow of oil if the current velocity is less than about one knot (1.7 feet per second). Wind will affect surface water velocity by a factor of approximately three percent of the wind speed. This should be taken into consideration when wind is blowing downstream, upstream, or across a lake. If this technique is used, the oil will have to be removed rapidly from the upstream side of the boom. The technique is not likely to be useful on larger rivers. Whatever the body of water, current velocities over one knot will make it difficult, if not impossible, to block the flow of oil, at which point diversion booming will be necessary.

Where oil is flowing into large rivers or streams over the bank or leaking from the ground into a water body, boom can be placed parallel to the bank. This creates a quiet surface area from which the oil may be skimmed. Boom can also be placed parallel to shorelines and banks to exclude oil from sensitive areas.

- a) **Boom to block the flow of oil.** Boom to block the flow of oil are generally deployed from bank to bank or from shore to shore (Figure 3-7).
- b) **Diversion booming.** Diversion boom are deployed to direct oil towards a containment collection area, or to divert oil away from environmentally sensitive areas. They can be deployed as single or connected sections of boom, multiple boom staggered across main or side channels, or in conjunction with berms or river bars, the specific technique depending on river characteristics and size. When using diversion boom to divert oil toward a containment collection area, the downstream end at the collection area is anchored by natural features (rocks and trees), steel pipes, or tracked vehicles, and the upstream end is fixed to a berm, boat, or tracked vehicle. The choice of upstream anchors depends on river size,

system characteristics, and whether or not the boom angle needs to be adjusted in response to water velocity and spill volume. Diversion boom deployed to protect environmentally sensitive areas will generally be fixed between boats, natural features, or berms (Figure 3-8).

Implementation of Containment and Exclusion Techniques

This subsection discusses how the techniques of containment and exclusion are applied at typical locations along the path of a spill. Several techniques can be used at one location. Procedures are discussed for the following locations:

- Small creeks, ditches, and ponds
- Highways and railroads
- Large rivers
- Large bodies of water

With the exception of on-water containment on large rivers during break up, the actions discussed for each location can be used regardless of the time of year. Winter usually aids implementation of containment/exclusion actions by decreasing the flow speed and spread of spilled oil and by extending means of access to many areas.

Response time is usually not as critical as in summer, and physical containment on thick ice or a heavy snow cover is also facilitated. However, snow cover can hamper containment actions by obscuring the extent of the spill and the blocking of watercourses may be hindered due to ice. For example, blocking a culvert containing ice should involve the complete removal of the ice to ensure an adequate seal on the culvert.

Small Creeks, Ditches, and Ponds

Small creeks can be blocked entirely by damming if there is sufficient storage area upstream. However, a means of stopping the oil and letting the water continue downstream will generally be required, such as an underflow dam, an overflow berm, or a dam in conjunction with a pump or siphon. These barriers should be located so that a pond will form upstream from the barrier, allowing the use of sorbents, boom, and skimmers for recovery. In addition, pools may exist behind log or debris jams where containment could be achieved.

On fast-flowing creeks, a series of containment barriers such as chicken wire (with sorbents) structures should be used. It may be necessary to remove log jams and other debris in creeks and streams to allow effective deployment and maintenance of boom. During periods of high flow, it may be necessary to install steel nets, chicken wire, or similar devices upstream of containment devices and areas in order to protect both equipment and personnel. To facilitate clean up and removal, spills should be diverted to an area with adequate storage.

On ponds, the outlet should be boomed to let the oil collect on the surface of the pond. Additional boom should be deployed around the slick to prevent it from contaminating the shoreline. Sorbent boom and conventional boom deployed in tandem can be effective with both boom across the pond outlet. The sorbent boom should be farther downstream. They will collect portions of the spill that may have passed beneath or around the conventional boom. Sensitive areas along creek banks and shorelines, such as waterfowl breeding sites and on important fish streams, can be protected by deploying boom to exclude oil.

Highways and Railroads

Highways and railroads can serve as important containment barriers if the culverts passing beneath them are blocked. Most culverts are two feet or less in diameter and can be blocked with sand bags, sheets of plywood, and earth or snow. Large culverts and some small ones transporting large volumes of water will require an underflow device. Where there are large volumes of oil involved and/or inadequate storage capacity on the spill side of the highway or railroad, it may be advantageous to allow all or part of the spill to pass beneath the highway to an area downslope with sufficient storage capacity. Dams should be constructed across the barrow ditch to provide containment.

Large Rivers

Spills on the main river channel will be difficult to contain, and can be treated in several ways. During periods of high stream flow and velocity, a series of diversion berms and boom should be used, diverting the spill to a containment area feature. The usefulness of boom on fast-flowing large rivers is limited; however, they can be deployed in containment areas upstream from natural or created pools and near sand bars. Oil should be removed from behind the boom as rapidly as possible to prevent loss of oil and to keep the strain on the boom to a minimum. A spill entering the river can be partially controlled by deploying boom parallel to the river bank downstream from the point of entry.

Large Bodies of Water

Boom will be the most useful means of containment on large bodies of water. The most effective way is to encircle the spill entry to the body of water with boom. During break up, pieces of ice may have to be removed from or moved on the surface of the lake in order to deploy boom. During the winter, ice will have to be broken up and removed to facilitate containment actions.

If oil is flowing into the body of water, a boom should be secured to the shore on one side of the point of entry and deployed around the periphery of the slick by boat until the spill is encircled. As in containing oil on small lakes, sorbent boom and conventional boom deployed in tandem may be effective. Sorbent pads can be distributed between the two boom. This technique will pick up some of the oil that passes the conventional boom.

Equipment Needed for Response Activities

An adequate supply of tools, equipment, and materials is stocked and available for immediate dispatch to the scene of an oil discharge. Knowledge of the area serviced by the pipeline will dictate the specific types of equipment necessary to deal effectively with discharges which may occur. The following is a list of equipment needed to respond to crude oil releases to land or navigable waters:

- Hay, straw, and commercial absorbents
- Wood fabricated oil boom
- Skirted oil containment boom with floats
- Chicken wire and barb wire
- Portable centrifugal pumps
- Pipes for underflow dams
- Vacuum tank truck
- Oil skimmer
- Backhoe with front loader

- Bulldozer
- Welding truck
- Trucks equipped with winch and side boom
- Boat and motor
- Hand tools such as shovels and rakes
- Emergency clamps, half soles, and replacement pipe
- Offsite temporary holding tank for recovered oil

Oil Spill Recovery Activities

(Please refer to the maps of the Response Zones provided in Section 9)

Response Zone # 1 (Winfield Lake)

Any oil spill in this zone will be confined to Winfield Lake. The most effective way to contain an oil spill in this area is by the use of boom to encircle the spill. This can be accomplished by the use of boats to place the boom. The public use area at Winfield Lake, located at the SE ¼ of the SE ¼ of Section 16, T-31S, R-5E has a boat ramp (Site 1) to facilitate the launching of boats and an area which is accessible to oil recovery equipment. After the oil slick has been encircled, boats will be used to move the boom and trapped oil to an area of the shoreline that is accessible to oil recovery equipment.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 barrel (bbl) per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials.

Recovered oil will be transported to the truck unload site at Brothers Station which is approximately three miles southeast of Winfield Lake. The Brothers Station has 1,300 bbl of storage capacity.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery locations well within the appropriate tier times.

Response Zone # 2 (Copan State Wildlife Management Area)

A crude oil spill from the pipeline north of this zone would enter the Little Caney River and travel south approximately one mile before entering the state wildlife management area. Oil recovery operations will be set up immediately north of the (b) (7)(F), (b) (3)

There is an access road to the river at this point. Containment will be accomplished by the use of boom across the river. Boats can be launched at this area. By the use of diversion boom, the crude oil can be directed to the east shoreline of the river, which is accessible to recovery equipment.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials. Based

on the recovery rates of the vacuum trucks, all free oil can be recovered well within the appropriate tier times.

Recovered oil will be transported to the truck unload site at Broome Station which is approximately four miles east of the recovery area. The Broome Station has (b) (7)(F), (b) (3) of storage capacity. Oil can be pumped from the storage tanks into the pipeline.

In the event that the oil spill has passed down river from the city water intake site, the next site down river to set up recovery operations would be at the county road bridge crossing the (b) (7)(F), (b) (3)

Boats can be launched on the south side of the bridge. Containment boom can be set up at this location with recovery operations set up on the east bank of the river.

In the event that the oil spill has passed down river from the above mentioned locations or if the river is in flood stage and boom will not contain the spill, recovery operations will be set up approximately three miles south of Caney, Kansas, at the north end of (b) (7)(F), (b) (3)

There is a boat ramp at this area (Site 3) and access for oil recovery equipment. Once the oil spill has entered the upper end of the lake, the most effective way to contain an oil spill in this area is by the use of boom to encircle the spill. This can be accomplished by the use of boats to place the boom. After the oil slick has been encircled, boats will be used to move the boom and trapped oil to an area of the shoreline that is accessible to oil recovery equipment.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery locations well within the appropriate tier times.

Response Zone # 3 (b) (7)(F), (b) (3)

The pipeline crosses tributary creeks of (b) (7)(F), (b) (3)

The most effective way to contain an oil spill in this area is by the use of boom to encircle the spill. This can be accomplished by the use of boats to place the boom. There is a public use area in Washington Cove which has boat launching facilities as well as access for recovery equipment. After the oil slick has been encircled, boats will be used to move the boom and trapped oil to an area of the shoreline that is accessible to oil recovery equipment.

On the east side of the lake, the pipeline crosses (b) (7)(F), (b) (3)

There is an access road crossing this creek (Site 2) approximately one mile west at (b) (7)(F), (b) (3)

At this point the creek is narrow enough that boom can be set without the use of boats. If a boat is required for maintenance of boom, a boat could be launched at this area. There is access for recovery equipment at this location.

Approximately one mile north of (b) (7)(F), (b) (3)

Approximately one mile southwest of the crossing there is an access

road on the south side of the creek located at the (b) (7)(F), (b) (3) this point boats can be launched and there is access for recovery equipment.

The most effective way to contain an oil spill in (b) (7)(F), (b) (3) is by the use of boom across the Creeks and the use of diversion boom to move the oil to the shoreline where there is access for recovery equipment.

In the event the oil from a spill has traveled downstream from the recovery points on (b) (7)(F), (b) (3) There is access for recovery equipment and an area where boats could be launched.

Once the encircled oil has been moved to the shoreline, at any location in this zone, the majority of the oil can be picked up by the use of vacuum trucks. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials.

Recovered oil can be transported to Broome Station, which is approximately nine miles northeast of the recovery site. The Broome Station has (b) (7)(F), (b) (3) of storage capacity.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery locations well within the appropriate tier times.

Response Zone # 3 (b) (7)(F), (b) (3)

A crude oil spill on pipeline sections crossing the Little Caney and Big Caney Rivers would result in oil flowing into the rivers and proceeding southward to the city of Bartlesville, Oklahoma.

The primary location for recovery operations would be approximately two miles west of (b) (7)(F), (b) (3) on the west side of the river at this location and an area for recovery equipment access. Boats could be launched at this location. Containment will be accomplished by setting boom across the river. By the use of diversion boom, the oil can be moved to the west bank of the river and picked up.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. (b) (7)(F), (b) (3) capacity vacuum trucks available. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials. Recovered oil will be transported to the truck unload site at Broome Station which is located approximately 17 miles north of the recovery area. The Broome Station has (b) (7)(F), (b) (3) of storage capacity.

If the crude oil spill has passed down river from the primary recovery location, the secondary

recovery location would be at immediately north of the low water dam in Johnstone Park (Site 6) in Bartlesville, Oklahoma, at the (b) (7)(F), (b) (3). There is a boat launching area at this location and access to the river for recovery equipment. By the use of boom across the river and diversion boom, the oil spill could be moved to the north bank of the river for recovery. Recovered oil would be transported to the Broome Station truck unload area located approximately 20 miles north of the recovery area.

If the crude oil has passed down river from the secondary recovery area, the next location for recovery operations would be at the (b) (7)(F), (b) (3). There is an access road on the south side of the river on the west side of the bridge (Site 7). There is access for recovery equipment and an area where boats could be launched. By use of boom across the river and diversion boom, the oil spill could be moved to the west side of the river for recovery. Recovered oil from this location could be transported to the truck unload area at Broome Station which is approximately 23 miles to the north.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery location well within the appropriate tier times.

Response Zone # 4 (b) (7)(F), (b) (3)

An oil spill at the two locations where pipelines cross the Verdigris River would result in an oil spill into the (b) (7)(F), (b) (3).

water dam at the city of (b) (7)(F), (b) (3), at the (b) (7)(F), (b) (3).

There is an access road (Site 2) to the river at this location.

The primary location to set up oil recovery operations for the south river crossing would be at (b) (7)(F), (b) (3). There is an access road (Site 2) to the river at this location.

Containment will be accomplished by the use of boom across the river. Boats can be launched at this area. By the use of diversion boom, the crude oil can be directed to the west shore line of the river which is accessible to recovery equipment.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five (b) (7)(F), (b) (3) vacuum trucks available. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials.

Recovered oil will be transported to the truck unload site at Coffeyville Station which is approximately three miles north of the recovery area. The Coffeyville Station has (b) (7)(F), (b) (3) of storage capacity.

If oil has gone past the primary recovery at Parker Bridge, the next recovery area on the (b) (7)(F), (b) (3). There is access through private land (Site 3) to the river. This location has a boat launching area and access to the river for recovery equipment. Through the use of boom across the river and diversion boom, the oil could be

diverted to the west side of the river and recovered. Oil recovered at this location would be transported to the Coffeyville Station truck unload area which is approximately 10 miles north of this area.

If oil has gone past the primary and secondary recovery areas, the next alternate recovery area for a spill in the (b) (7)(F), (b) (3)

There is access to the river for recovery equipment as well as a boat launching area. Through the use of boom across the river and diversion boom, the oil would be diverted to the east side of the river for recovery. Oil recovered at this location would be transported to the truck unload facility at Coffeyville Station which is approximately 25 miles north of this area.

If the crude oil spill has progressed down river from Highway 60 or if water speed makes it impossible to use boom in the river, the spill will enter the north end of (b) (7)(F), (b) (3). Once the oil is in this area, the best way to contain it is through the use of boom to encircle the oil.

This can be accomplished with the use of boats. Once the spill is encircled it can be moved to the east side of the lake to the (b) (7)(F), (b) (3). There is access to the lake at this point for recovery equipment. There is a boat launching area at the (b) (7)(F), (b) (3) public use area (Site 5) approximately one mile west of the north end of (b) (7)(F), (b) (3). Oil recovered at this location would be transported to the truck unload area at Coffeyville Station which is approximately 30 miles northwest of this area.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery locations well within the appropriate tier times.

Response Zone # 5 (b) (7)(F), (b) (3)

A crude oil spill from any pipeline section in this zone could enter the (b) (7)(F), (b) (3)

If the spill occurred from a release on the 8-inch line, the primary oil recovery area would be approximately one mile south of (b) (7)(F), (b) (3)

There is an access road, boat launching area, and area for recovery equipment on each side of the river. Containment will be accomplished by the use of boom across the river. By the use of diversion boom, the oil could be moved to the shoreline for recovery.

If the crude oil spill has gone past the primary recovery area, the secondary recovery area would be at the (b) (7)(F), (b) (3). There is a public use area at this location (Site 2), known as Boulanger Landing, which has boat launching facilities and access for oil recovery equipment. Containment will be accomplished by the use of boom across the river. By the use of diversion boom, the oil could be moved to the shoreline for recovery.

If oil has progressed past the secondary recovery point or if a spill occurs from the 4-inch line section, the next down river recovery point would be at a public use area known as (b) (7)(F), (b) (3)

There is access to the river for oil recovery equipment and a boat launching area. Containment will be accomplished by the use of boom across the river. By the use of diversion boom, the oil could be moved to the west side of the shoreline for recovery.

If the crude oil spill has progressed down river from the above recovery areas, or if water speed makes it impossible to use boom in the river, the spill will be entering the north end of (b) (7)(F), (b) (3). Once the oil is in this area, the best way to contain it is through the use of boom to encircle the oil. This can be accomplished with the use of boats. Once the spill is encircled it can be moved to the west side of the lake to the (b) (7)(F), (b) (3). There is a public use area at this point with a boat launching ramp and access to the lake for recovery equipment. Oil recovered at this location would be transported to the truck unload area at Broome Station which is approximately 16 miles northeast of this area. The Broome Station has (b) (7)(F), (b) (3) of storage capacity.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered well within the appropriate tier times.

Response Zone # 6 (b) (7)(F), (b) (3)

A crude oil spill on or near the pipeline section crossing the (b) (7)(F), (b) (3) would result in oil flowing into the river and possibly proceeding southward to the southwest city limits of Winfield, Kansas.

The primary location for recovery operations would be approximately one mile west of Douglass, Kansas, at the (b) (7)(F), (b) (3). There is access on the east side of the river and on the south side of the bridge crossing the river at this location (Site 1) and an area for recovery equipment access. Boats could be launched at this location. Containment will be accomplished by setting boom across the river. By the use of diversion boom, the oil can be moved to the east bank of the river for recovery.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off loaded into transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials.

Recovered oil will be transported to the truck unload site at Hooser Station which is approximately thirty miles southeast of the recovery area. The Hooser Station has (b) (7)(F), (b) (3) of storage capacity.

If the crude oil spill has passed down river from the primary recovery location, the secondary recovery location would be two miles west of Rock, Kansas, at the county road bridge crossing the (b) (7)(F), (b) (3). There is access to the river for boat launching (Site 2) and oil recovery on the east bank at the south side of the river bridge. By the use of boom across the river and diversion boom, the oil spill could be moved to the east bank of the

river for recovery. Recovered oil would be transported to the Hooser Station truck unload area approximately 28 miles southeast of the recovery area.

If the crude oil has passed down river from the secondary recovery area, the next location for recovery operations would be two miles south and (b) (7)(F), (b) (3)

There is access to the river on the west shoreline south of the river bridge (Site 3). There is access for recovery equipment and an area where boats could be launched. By use of boom across the river and diversion boom, the oil spill could be moved to the west side of the river for recovery. Recovered oil from this location could be transported to the truck unload area at Hooser Station which is approximately 25 miles southeast of the recovery area.

The next downstream oil recovery area would be at the Highway 15 bridge which is 4½ miles east of Udall, Kansas. The legal description of this recovery area is (b) (7)(F), (b) (3)

There is an area on the west shoreline north of the bridge where there is access for recovery equipment and boat launching. By the use of boom across the river and diversion boom, the oil spill could be moved to the west side of the river for recovery. Recovered oil from this location could be transported to the truck unload area at Hooser Station which is approximately 23 miles southeast of the recovery area.

The next downstream oil recovery area would be at the south of the Highway 160 bridge, which is located at the fair grounds at the west city limits of Winfield, Kansas. The legal description of this recovery area is (b) (7)(F), (b) (3) There is an access area on the east shoreline for recovery equipment and a public boat launching ramp (Site 5). By the use of boom across the river and diversion boom the oil spill could be moved to the east side of the river for recovery. Recovered oil from this location could be transported to the truck unload area at Hooser Station which is approximately 18 miles southeast of the recovery area.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery location well within the appropriate tier times.

Response Zone # 7 (b) (7)(F), (b) (3)

A crude oil spill on pipeline sections crossing the Elk, Neosho, and Verdigris rivers would result in oil flowing into the rivers and proceeding southward to the city of Independence, Kansas (Elk and (b) (7)(F), (b) (3)), and over the Oklahoma state line and into Grand Lake O' Cherokee near Wyandotte, Oklahoma (b) (7)(F), (b) (3)

The primary location for recovery operations at (b) (7)(F), (b) (3) would be approximately two miles east of (b) (7)(F), (b) (3). There is an access road, 203 Road (Site 1) on the east side of the river at this location and an area for recovery equipment access. Boats could be launched at this location. Containment will be accomplished by setting boom across the river. By the use of diversion boom, the oil can be moved to the east or west bank of the river and picked up.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off

loaded onto transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials. Based on the recovery rates of the vacuum trucks, all free oil can be recovered well within the appropriate tier times.

Recovered oil will be transported to the truck unload site at Humboldt Station which is approximately 15 miles northeast of the recovery area. The Humboldt Station has barrels of storage capacity.

If the crude oil spill has passed down river from the primary recovery location, the secondary recovery location would be at the Highway 59 bridge (Site 2) in (b) (7)(F), (b) (3) (b) (7)(F), (b) (3) There is an area that can be used as a boat launching area at this loc recovery equipment. By the use of boom across the river and diversion boom the oil spill could be moved to the west bank of the river for recovery. Recovered oil would be transported to the Broome Station truck unload area approximately 50 miles southwest of the recovery area. This response location protects the water intake for the (b) (7)(F), (b) (3).

If the crude oil has passed down river from the secondary recovery area, the next location for recovery operations would be south of St. Paul, Kansas (b) (7)(F), (b) (3) (b) (7)(F), (b) (3) There is an access road on the south side of the river (b) (7)(F), (b) (3) and an access road from the north of the river (Front Street). There is access for recovery equipment and an area where boats could be launched. By use of boom across the river and diversion boom the oil spill could be moved to the north or south side of the river for recovery. This response location is on the western edge of the Neosho State Waterfowl Management Area. Recovered oil from this location could be transported to the truck unload area at Broome Station which is approximately 45 miles to the southwest. This response location protects the water intake for the (b) (7)(F), (b) (3).

The primary location for recovery operations at (b) (7)(F), (b) (3) be approximately six miles north of Independence, (b) (7)(F), (b) (3) (b) (7)(F), (b) (3) The response location would be on east side of the river near the previous location of Turner Bridge (Site 4) and an area for recovery equipment access could be utilized on west side of the river. Boats could be launched at this location. Containment will be accomplished by setting boom across the river. By the use of diversion boom, the oil can be moved to the east or west bank of the river and picked up.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off loaded onto transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials. Based on the recovery rates of the vacuum trucks, all free oil can be recovered well within the appropriate tier times.

Recovered oil will be transported to the truck unload site at Broome Station which is approximately

18 miles southwest of the recovery area. The Broome Station has (b) (7)(F), (b) (3) of storage capacity.

The primary location for recovery operations at (b) (7)(F), (b) (3) would be approximately three miles north of Independence, (b) (7)(F), (b) (3). The response location would be on either side of the Highway 75 bridge (Site 5) and an area for recovery equipment access could be utilized on either side of the bridge. Boats could be launched at this location. Containment will be accomplished by setting boom across the river. By the use of diversion boom, the oil can be moved to the north or south bank of the river and picked up.

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five 80 bbl capacity vacuum trucks available. Recovered oil can be off loaded onto transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials.

Based on the recovery rates of the vacuum trucks, all free oil can be recovered well within the appropriate tier times.

Recovered oil will be transported to the truck unload site at Broome Station which is approximately 15 miles southwest of the recovery area. The Broome Station has (b) (7)(F), (b) (3) of storage capacity.

If the crude oil spill has passed down river from the primary recovery location, the secondary recovery location would be north of the city (b) (7)(F), (b) (3) (Site 6) in Independence, Kansas at the (b) (7)(F), (b) (3). There is an area that can be used as a boat launching area at this location and access to the river for recovery equipment. By the use of boom across the river and diversion boom the oil spill could be moved to the east bank of the river for recovery. Recovered oil would be transported to the Broome Station truck unload area approximately 14 miles southwest of the recovery area. This response location protects the water intake for the (b) (7)(F), (b) (3).

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery location well within the appropriate tier times.

Response Zone # 8 (b) (7)(F), (b) (3)

A crude oil spill on pipeline sections crossing (b) (7)(F), (b) (3) would result in oil flowing southward toward the city of Barnsdall, Oklahoma. Pipeline sections located northwest of Barnsdall, Oklahoma cross (b) (7)(F), (b) (3) and a crude oil spill would result in oil flowing southwestward toward (b) (7)(F), (b) (3). Pipeline sections located northwest of Wynona, Oklahoma cross (b) (7)(F), (b) (3) and Little (b) (7)(F), (b) (3); a crude oil spill sections crossing (b) (7)(F), (b) (3) and (b) (7)(F), (b) (3) would result in oil flowing southeastward toward (b) (7)(F), (b) (3).

The primary response site for Salt Creek (Site 1) would be one half mile northeast of Fairfax, Oklahoma, at the SW ¼ of the SE ¼ of Section 7, T-24N,R-6E (b) (7)(F), (b) (3)

Access is via gated access off First Street along the southern bank of (b) (7)(F), (b) (7)(G). Boat access is available and recovery equipment can be staged along the roadway. Containment will be accomplished by setting boom across the creek and using diversion boom to move oil to the south side of the creek bank for recovery. Recovered oil will be transported to the truck unload site at Kelley Station which is approximately seven miles northwest of the recovery area. Kelley Station has (b) (7)(F), (b) (7)(G) of storage capacity.

Response Sites 2 and 3, located approximately seven miles northeast of Ralston, Oklahoma, protect the waterways leading to an ecological protection area near Ralston. Response site 3 is located on Lucy Creek at the (b) (7)(F), (b) (3) (b) (7)(F), (b) (3)

Response site 2 is located on (b) (7)(F), (b) (3) (b) (7)(F), (b) (3). Boat access is available to the north or south of County Road 5451 at both response sites and recovery equipment could be staged along the roadway. Containment will be accomplished by setting boom across the waterways and using diversion boom to move oil to the recovery equipment. Recovered oil will be transported to the truck unload site at Kelley Station which is approximately seven miles northwest of the recovery area. Kelley Station has (b) (7)(F), (b) (7)(G) of storage capacity.

Response Site 4, located west of Oklahoma State Highway 99, protects the recreational waters of (b) (7)(F), (b) (7)(G) and is located at the (b) (7)(F), (b) (3) (b) (7)(F), (b) (3). The response location would be on the southeast side of Hominy Creek with access via existing bridge on Country Road 5501. Containment will be accomplished by setting boom across the waterway and using diversion boom to move oil to the north or south banks where recovery equipment could be staged. Recovered oil will be transported to the truck unload site at the Kelley Station which is approximately eight and one half miles northwest of the recovery area. The Kelley Station has (b) (7)(F), (b) (7)(G) of storage capacity.

Response Site 5, located west of Oklahoma State Highway 99, protects the recreational waters of (b) (7)(F), (b) (3) (b) (7)(F), (b) (3). The response location would be on the north or south side of (b) (7)(F), (b) (7)(G) with access via a low water bridge on Country Road 5305. Boats could be launched at this location to the northwest of the low water bridge. Containment will be accomplished by setting boom across the waterway and using diversion boom to move oil to the north or south banks where recovery equipment could be staged. Recovered oil will be transported to the truck unload site at the Barnsdall Station which is approximately 16 miles northeast of the recovery area. The Barnsdall Station has (b) (7)(F), (b) (7)(G) of storage capacity.

Response Site 6, located west of Barnsdall, Oklahoma, protects the recreational waters of (b) (7)(F), (b) (7)(G). The response location would be on the northeast or southwest side of (b) (7)(F), (b) (7)(G) with access via a low water bridge on Country Road 2350. Boats could be launched at this location to the north of the low water bridge. Containment will be accomplished by setting boom across the waterway and using diversion boom to move oil to the north or south banks where recovery equipment could be staged. Recovered oil will be transported to the truck unload site at the Barnsdall Station which is approximately six miles northeast of the recovery area. The Barnsdall station has (b) (7)(F), (b) (7)(G) of storage capacity.

The primary location for recovery operations at (b) (7)(F), (b) (7)(F), (b) (3) Site 7) would be approximately three quarter mile north of Barnsdall, Oklahoma, at the (b) (7)(F), (b) (3) (b) (7)(F), (b) (3). The response location would be on west side of (b) (7)(F), (b) (3). Boats could be hand launched at this location. Containment will be accomplished by setting boom across the waterway. By the use of diversion boom, the oil can be moved to the west bank of the creek and recovered with equipment. Recovered oil will be transported to the truck unload site at the Barnsdall Station which is approximately two miles north of the recovery area. The Barnsdall Station has (b) (7)(F), (b) (3) of storage capacity. This response location protects waterways leading to residential and commercial areas of the City of Barnsdall. In addition, this response location is approximately 500 feet upstream of Baker Hughes (918-847-2522) water intake (b) (7)(F), (b) (3).

Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery location well within the appropriate tier times.

Response Zone # 9 (b) (7)(F), (b) (3)

A crude oil spill on pipeline sections crossing the (b) (7)(F), (b) (3) would result in oil flowing into (b) (7)(F), (b) (3). Pipeline sections south of (b) (7)(F), (b) (3) would result in oil flowing southward to the city of Bartlesville, Oklahoma in the event of a spill.

In the event of a crude oil release to (b) (7)(F), (b) (3) south of Bartlesville, Oklahoma, recovery operations would be focused at Site 1 at the (b) (7)(F), (b) (3). The response location (Site 1) would be at County Road 2706 crossing low water dam located on the north side of the road. Boats could be launched at this location and upstream response could be made via all-terrain vehicle (ATV) access. Containment will be accomplished by setting boom across the creek. By the use of diversion boom, the oil can be moved to the east or west bank of the creek and recovered. Recovered oil would be transported to the truck unload site at Barnsdall Station which is approximately 11 miles southwest of the recovery area. The Barnsdall Station has (b) (7)(F), (b) (3) of storage capacity.

In the event of a crude oil release to (b) (7)(F), (b) (3) downstream of the (b) (7)(F), (b) (3) drinking water protection area, access is available on the north side of (b) (7)(F), (b) (3) via County Road (b) (7)(F), (b) (3) (Site 2) at the (b) (7)(F), (b) (3). There is access for recovery equipment along the roadway and access to manually place boom. By use of boom across the creek and diversion boom, the oil spill could be moved to the north bank for recovery. Recovered oil from this location could be transported to the truck unload area at Broome Station, located approximately 19 miles northeast. The Broome Station has (b) (7)(F), (b) (3) of storage capacity. This response location protects waterways leading to residential areas of the City of Bartlesville.

In the event of a crude oil release to the (b) (7)(F), (b) (3) the response would be at response Site 3 located on (b) (7)(F), (b) (3), approximately two and one half miles northwest of Dewey, Oklahoma, at the (b) (7)(F), (b) (3). There are areas north and south of the roadway that can be used as a boat launching site and access to the river for recovery equipment. By the use of boom across the river and diversion boom the oil spill could

be moved to the east or west bank of the river for recovery. Recovered oil would be transported to the Broome Station, located approximately 15 miles north of the recovery area. Broome Station has (b) (7)(F), (b) (3) of storage capacity. This response location protects waterways leading to residential and commercial areas of Bartlesville.

The primary location for recovery operations at (b) (7)(F), (b) (3) (Site 4) would be approximately five and one quarter miles north of (b) (7) Oklahoma, at the (b) (7)(F), (b) (3) (b) (7)(F), (b) (3) (F) (b) There is an access road, W. 300 Road (Site 4) on the east side of the river at this location and an area for recovery equipment access. Boats could be launched at this location. Containment will be accomplished by setting boom across the river as needed. By the use of diversion boom, the oil can be moved to the east bank of the river and recovered. This response location protects the water intake for (b) (7)(F), (b) (3)

A crude oil spill on pipeline sections crossing Hafer Run would result in oil flowing into (b) (7)(F), (b) (3) located approximately 1 mile west of Broome Station. The response location is accessible by boat. Containment will be accomplished by setting boom across the river as needed. By the use of diversion boom, the oil can be moved to the east bank of the river and recovered. This response location protects the water intake for (b) (7)(F), (b) (3)

Once the encircled oil has been moved to the shoreline, the majority of the oil can be picked up by the use of vacuum trucks. Each vacuum truck has the capability of picking up approximately 300 bbl per hour. CRCT has five (b) (7)(F), (b) (3) vacuum trucks available. Recovered oil can be off loaded onto transport trucks for transportation to the temporary storage site. Residual oil that cannot be picked up by the use of vacuum trucks will be recovered by the use of absorbent materials. Based on the recovery rates of the vacuum trucks, all free oil can be recovered well within the appropriate tier times.

Recovered oil would be transported to the truck unload site at Broome Station which is less than five miles northeast of the Site 4 and Site 5 recovery areas. The Broome Station has (b) (7)(F), (b) (3) of storage capacity. Based on the recovery rates of the vacuum trucks, all free oil can be recovered from any of the above recovery location well within the appropriate tier times.

Identification and Availability of Response Equipment

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as boom and hay are stored at select station sites. If additional equipment and supplies are required, CRCT has arranged for the CRCT Plainville, Kansas, pipeline facility to respond with manpower and equipment.

Identification of Personnel Available for Response Activities

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a response is required after normal working hours, employees will be contacted by telephone and asked to

report to the Bartlesville or Winfield maintenance yard.

In the event that the Plainville, Kansas, pipeline facility is needed, they will be contacted by telephone. It will be the Plainville pipeline facility's responsibility to contact their employees and to transport the needed equipment and supplies to the release area.

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response Organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder. A representative of Haz-Mat Response Inc., will coordinate all activities through the Incident Commander.

Emergency Response Team Organization

The support and advisory personnel comprising the Emergency Response Team will be activated as necessary by the Qualified Individual who has assumed the responsibility as Incident Commander. It is the responsibility of the Incident Commander, in consultation with the Pipeline Foreman, to evaluate the magnitude of the spill and to determine the appropriate degree of advisory and support personnel needed for the emergency.

The personnel assigned to the Emergency Response Team by the Pipeline Foreman will perform a number of response actions described in specific sections of this plan, using all necessary company resources. The Pipeline Foreman will advise the Incident Commander of any additional company or outside resources needed. Once the plan is activated, continuous efforts will be maintained until the spilled oil is satisfactorily contained and cleaned up.

The specific responsibilities and primary emergency actions of emergency response personnel are listed in the following subsection. Current emergency telephone lists for individual personnel, and their designated alternates, will be posted in the Bartlesville and Winfield control centers and the pump stations. This list will be distributed to all response team members. The listed positions are filled by CRCT personnel who normally have other operating responsibilities. However, in the event of an oil discharge, the listed Emergency Response Team duties will supersede normal responsibilities. These normal responsibilities will be assumed by others in the CRCT organization.

Oil Discharge Responsibilities for Supervisory Personnel

Qualified Individual/Incident Commander

A listing of Qualified Individuals can be found in the Core Plan Summary in Section 1. The Operations Manager will be the designated Qualified Individual who will act as the Incident Commander in the Incident Command System (ICS) and will function as a member of the Unified Command. In the absence of the Operations Manager, the pipeline Environmental & Safety Specialist will function in this capacity. Other Qualified Individuals will function in this capacity when required. The Qualified Individual/Incident Commander has full authority to:

- Contract with and activate oil spill removal organizations
- Activate operator personnel and equipment
- Act as liaison with the On-Scene Coordinator
- Obligate any company funds required to carry out all required and directed oil

spill response activities

The Incident Commander

The Incident Commander will be responsible for strategic control and management of all systems related to an emergency contingency and to restore the line to service as soon as possible.

The Incident Commander will arrange for the provision of advisory and support functions as well as manpower and equipment needed by the Pipeline Foreman, who will be responsible for the tactical handling of the oil discharge contingency. Planning and emergency functions of the Qualified Individual/Incident Commander are as follows:

- a) Planning Functions
 - Ensure that all Emergency Response Team positions are adequately staffed with primary and alternate assignments.
 - Ensure plans and equipment are kept in a continuous state of readiness.
 - Ensure that training of personnel is conducted as needed.
- b) Functions During Emergencies
 - Ensure that thorough records and logs of all incidents and actions are maintained.
 - Ensure that the Pipeline Foreman has been notified and the immediate response actions have been taken.
 - Make the determination, in conjunction with the Pipeline Foreman, whether to shut down the pipeline for a marginal discharge.
 - Make sure that emergency shutdown procedures have been initiated in the event of a major discharge of crude oil.
 - Assess magnitude of the discharge and activate other members of the Emergency Response Team as necessary.
 - Provide the Pipeline Foreman with all company-wide and outside support as necessary.
 - Inform CRCT Corporate Management of the magnitude of the discharge and actions taken.
 - Ensure that all appropriate governmental agencies are notified of the discharge.
 - Notify CRCT Corporate Public Relations Coordinator of the discharge.
 - Determine what remediation activities are required.
 - Dispatch personnel as needed to handle normal operating and repair duties of pipeline personnel involved in emergency response operations.

Pipeline Technician

The Pipeline Technician, who will function as the primary lead person in the Planning Section within the framework of the Incident Command System, is responsible to the Incident Commander for all oil discharge response actions; has responsibility to initiate alert, reconnaissance and control actions upon notification of a discharge incident; conduct the overall field operations on water and land; develop and implement remediation plans and procedures; and has full authority for

assignment of field manpower, equipment, supplies, and outside services.

Planning and emergency functions for the Pipeline Technician are as follows:

- a) Planning Functions
 - Ensure that all pipeline personnel are trained and drill frequently to provide full and rapid oil discharge response capability.
 - Ensure that the necessary equipment is available and operable to meet oil spill response needs.
 - Ensure that the necessary oil discharge response materials and equipment are maintained and stored at locations to meet oil discharge response needs.
 - Ensure that routine surveillance is maintained by ground and air to spot any discharge and to discourage third party damage to the pipeline system.
- b) Functions During an Emergency
 - Ensure that the Emergency Response Team has been dispatched for immediate action and keep informed of their activities.
 - Establish an on-scene field office for containment and remediation activities.
 - Advise the Incident Commander of the magnitude of the discharge and the response actions taken.
 - Coordinate efforts with the Operations Section for deployment and supervision of the Emergency Response Team personnel and other manpower and equipment necessary for effective emergency action for containment, exclusion, and remediation.
 - Determine total manpower, equipment, and supply requirements to carry out the remediation plan.
 - Provide progress reports to the Incident Commander.

Environmental & Safety Specialist

The Environmental & Safety Specialist, who will assume the duties of the lead person in the Operations Section, will report to the Incident Commander. Responsibilities include notification to the Logistics Section for planning and procurement of all necessary safety and personal protective equipment; arranging for special traffic or personnel control required at the discharge scene; enforcing safety regulations and procedures through the Command Safety Staff; and to provide advice concerning environmental regulatory requirements.

Planning and emergency functions for the Environmental & Safety Specialist are as follows:

- a) Planning Functions
 - Coordinate the efforts of the Emergency Response Team members as well as OSRO personnel.
 - Review contingency plans and recommend procedures and work practices needed to enhance safety and protection of the environment.
 - Provide training for all Emergency Response Team members regarding safety and environmental requirements and procedures.

- Keep the Incident Commander and Pipeline Superintendent up-to-date on personal protective equipment requirements.
 - Keep all members of the Emergency Response Team and Management informed of any new safety and environmental regulations.
 - In conjunction with the Command Staff Safety Officer, conduct routine surveys of all oil discharges to ensure that required safety precautions are being observed by all personnel.
 - Review training and field drills from a safety and environmental standpoint and incorporate intensive training where needed.
- b) Functions During an Emergency
- Maintain surveillance of oil discharge movement and deploy exclusion boom as necessary to protect environmentally sensitive areas.
 - Determine areas requiring maximum effort and assign Response Supervisors as necessary.
 - Consult with the Command Staff Safety Officer on personal protection requirements.
 - Arrange for procurement and distribution of safety equipment for personal protection.
 - Arrange for special handling of traffic and personnel in specific discharge and staging areas.
 - Provide environmental and safety support functions at the scene of the discharge as required by the Command Staff Safety Officer.
 - Maintain communications schedule with the Incident Commander.

Pipeline Foreman

The Pipeline Foreman is responsible to the Operations Section lead person for on-scene coordination and operation of all containment, exclusion, and remediation operations within the contingency areas.

Planning and emergency functions for the Pipeline Foreman are as follows:

- a) Planning Functions
- Maintain a firm schedule of communication with the Operations Section.
 - Ensure that equipment and supplies required for containment, exclusion, and remediation activities are maintained in operational condition during all oil discharge response activities.
 - Ensure that personnel are properly trained to operate required response equipment.
 - Verify availability and location of necessary equipment to recover oil, such as pitchforks, shovels, rakes, skimming poles, barrels, plastic bags, vacuum equipment, sorbent materials, gloves, etc.
 - Notify the Logistics Section if equipment is needed.
- b) Functions During an Emergency
- Direct Emergency Response Team to take action as defined. Take

immediate action to establish containment at specified sites or to develop new sites as circumstances indicate.

- Provide overall supervision to Emergency Response Team and modify manpower and equipment to ensure efficient operations.
- Establish remediation procedures as necessary within a contingency area and supervise containment, exclusion, and remediation activities within the area.
- Keep the Operations Section advised as to progress and suggested plan changes.
- Coordinate efforts with the Logistics Section for disposal of recovered oil and oil contaminated materials.
- Maintain communications schedule with the Operations Section lead person.
- Record manpower utilization, time leaving, time returned, and time and place employees are released.
- Maintain records of all other actions taken.

Trucking/Maintenance Foreman

The Trucking/Maintenance Foreman is responsible to the Operations Section. His duties will be to coordinate efforts with the Logistics Section in providing and dispatching heavy equipment to the affected areas as required by the Emergency Response Team.

Planning and emergency functions for the Trucking/Maintenance Foreman will include the following:

- a) Planning Functions
 - Ensure that all equipment is maintained in proper working order.
 - Keep daily records showing the assigned location of all heavy equipment.
 - Know transportation requirements for each piece of heavy equipment, especially if not self-transported.
- b) Functions During an Emergency
 - Keep records of equipment, fuel, maintenance requirements, and ensure that the emergency equipment is properly maintained.
 - Report all expenditures to the Finance Section.
 - Assist Pipeline Operations Section as directed.
 - Define equipment needs to provide services requested by the Operations Section.
 - Work closely with the Operations Section to supply needed equipment promptly.

Alternative Response Strategies

Alternative response strategies are not contemplated under this Plan.

WATER BYPASS DAM (INCLINED TUBE)

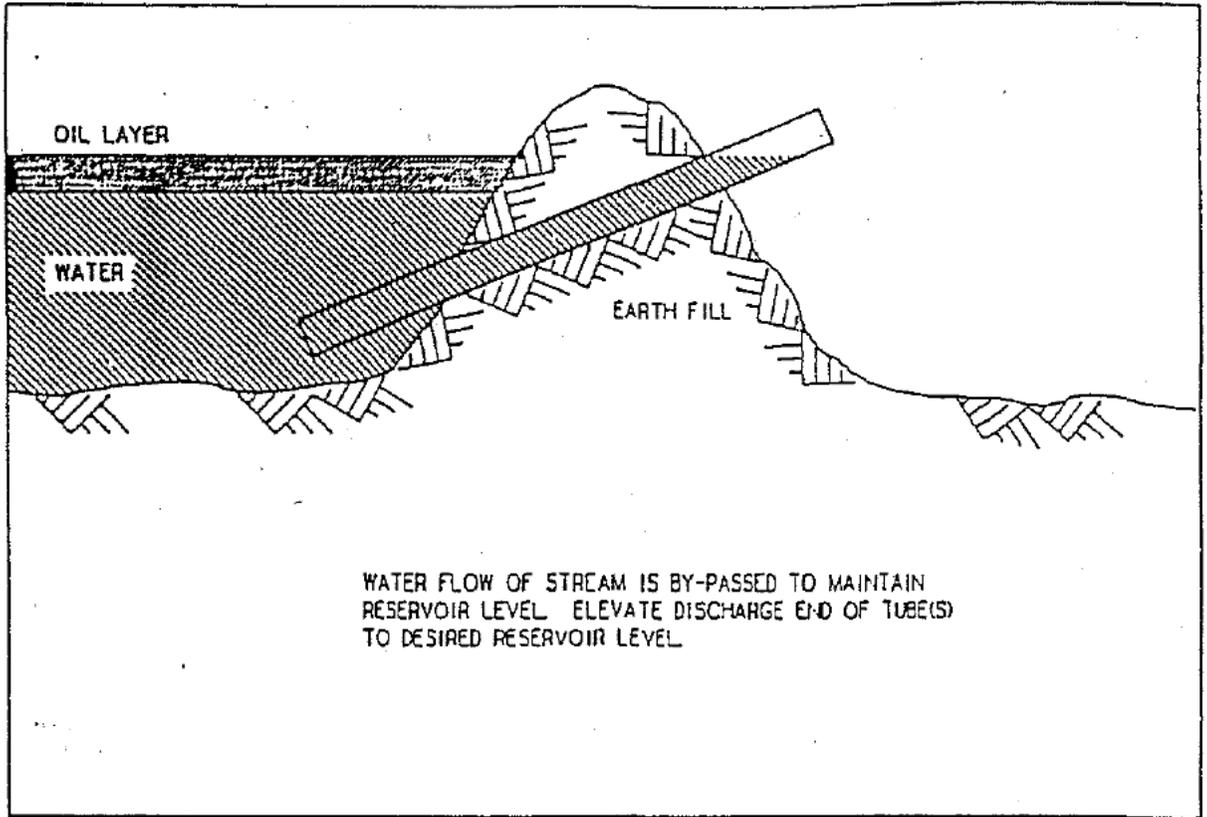
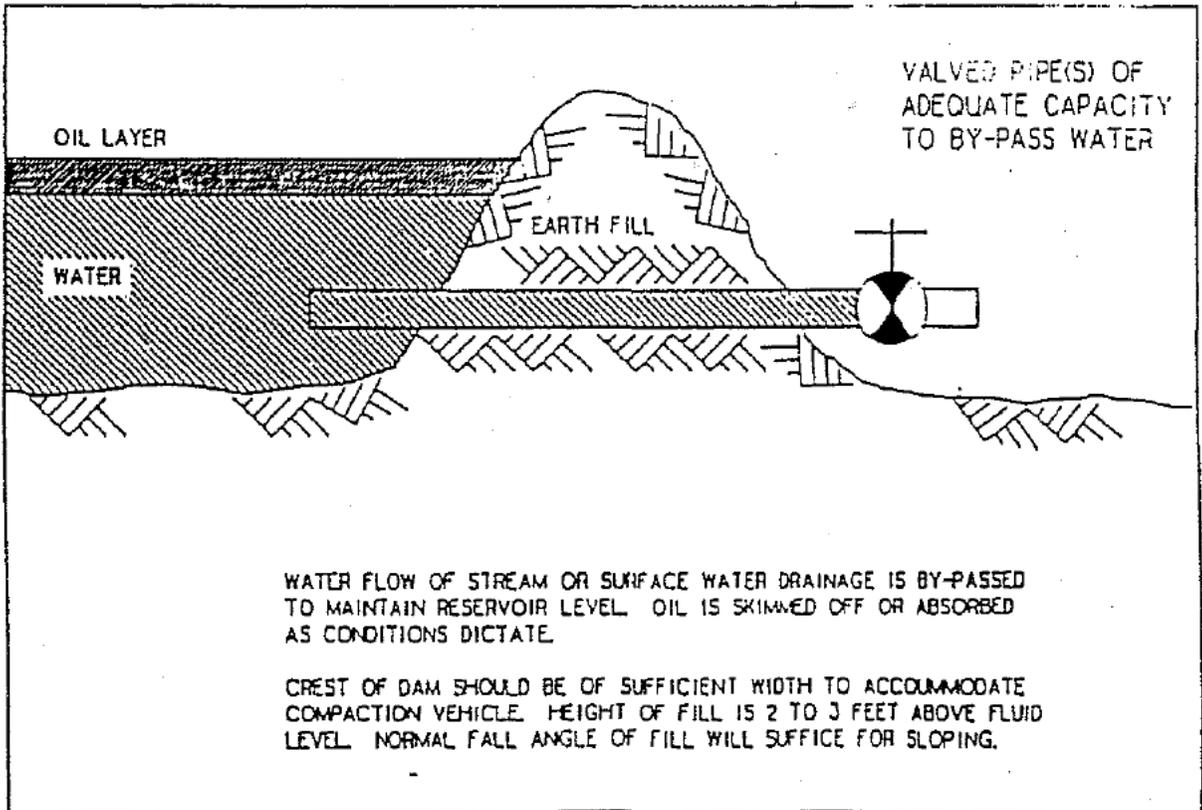
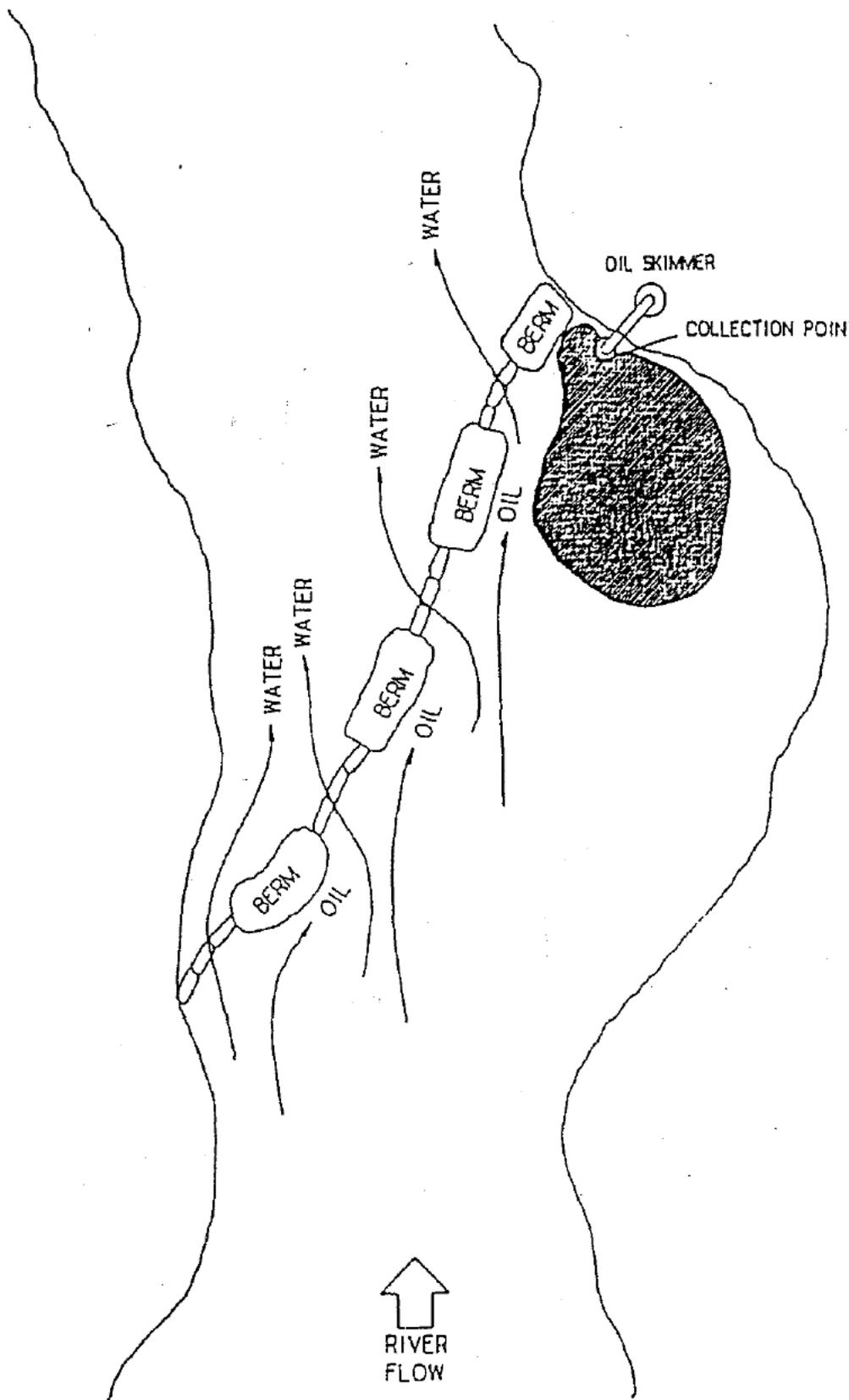


FIGURE 3-2

WATER BYPASS DAM (VALVED PIPE)

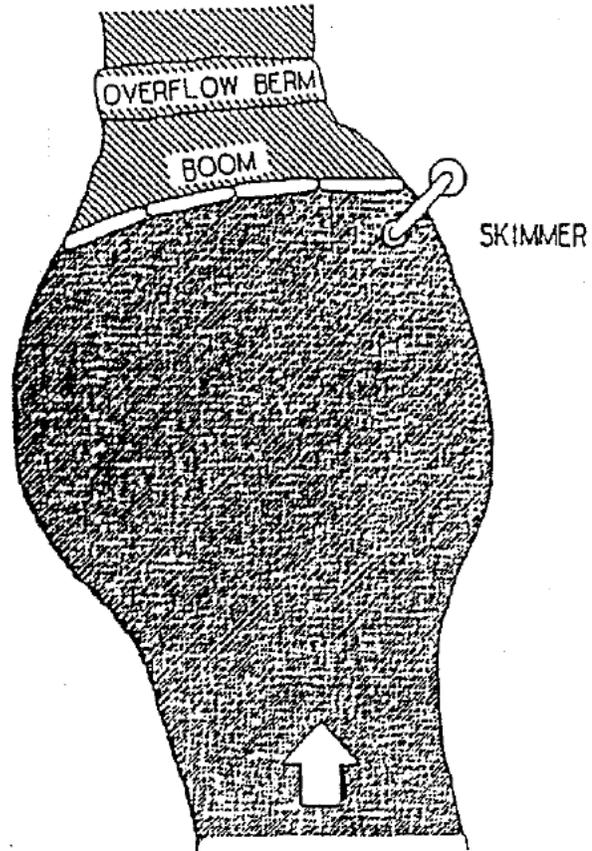


DIVERSION BOOMS



THIS REPRESENTS A SERIES OF DIVERSION BERMS JOINED BY BOOMS. THEY ARE POSITIONED SO THAT A SPILL CAN BE DIVERTED TO A LOCATION WITH ADEQUATE STORAGE AND ACCESSABILITY TO REMOVAL EQUIPMENT. IF STREAM AND SPILL CONDITIONS PERMIT, ONE BERM MAY BE ALL THAT IS REQUIRED.

OVERFLOW BERM



TOP VIEW

SIDE VIEW

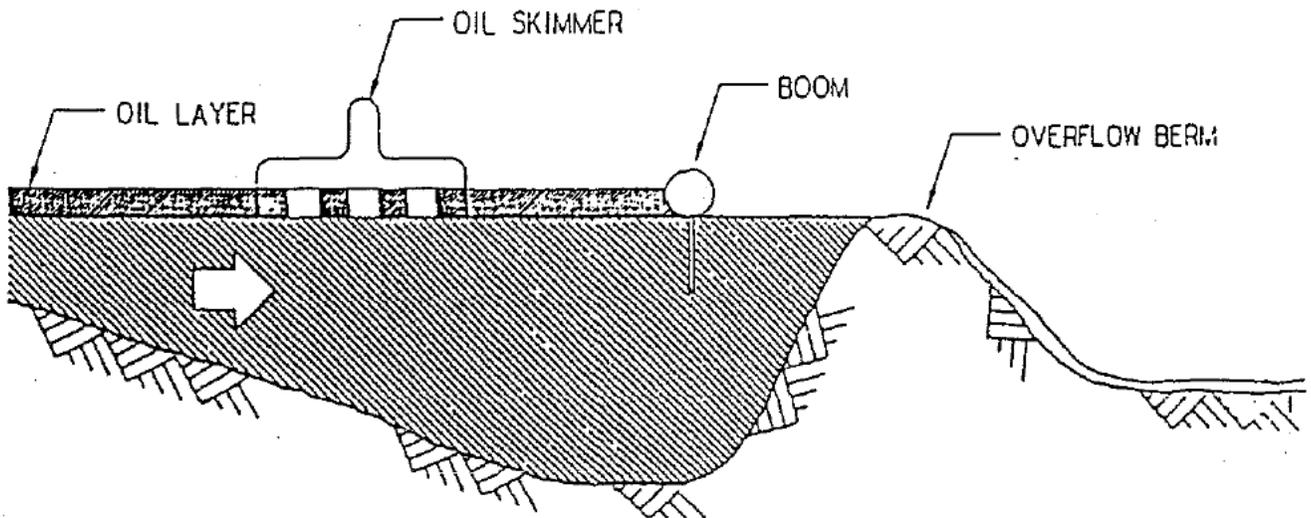
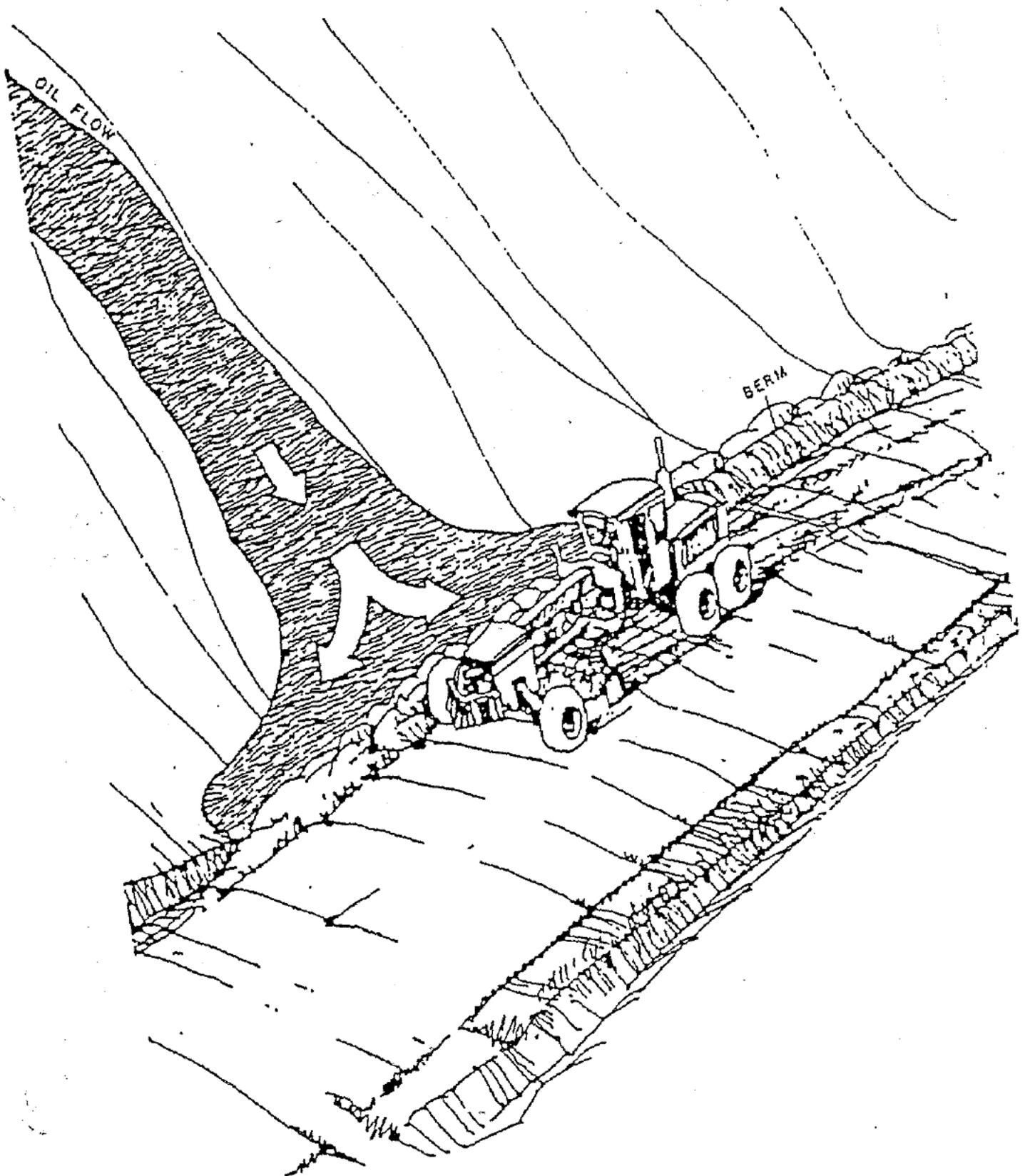
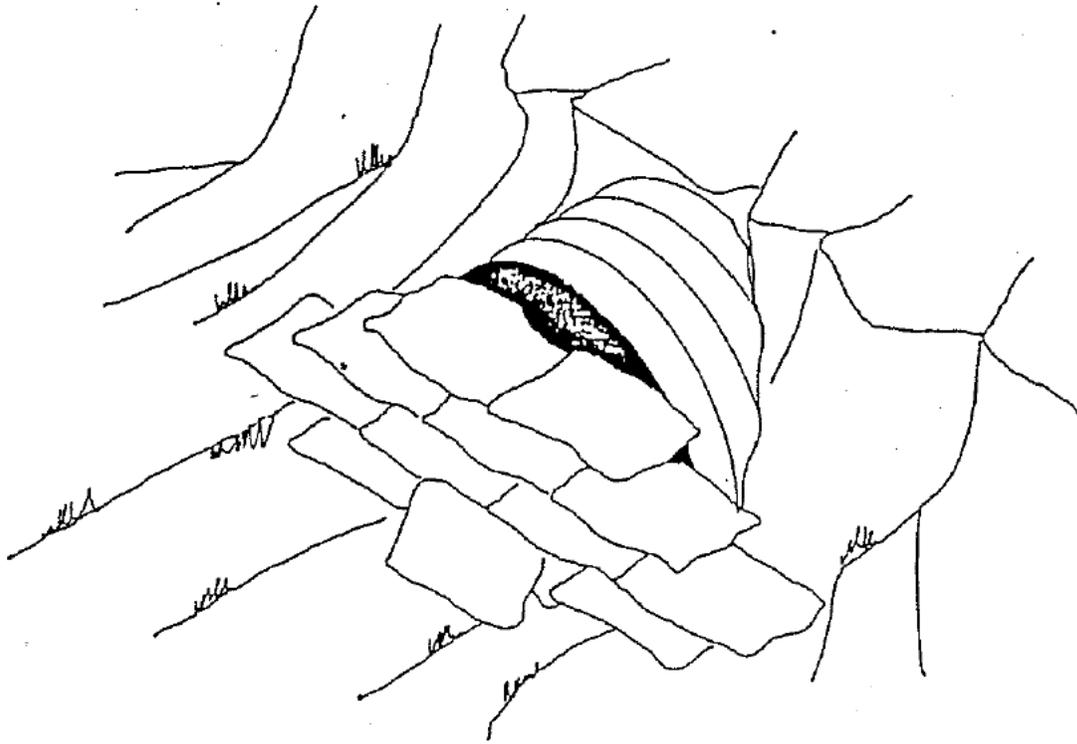


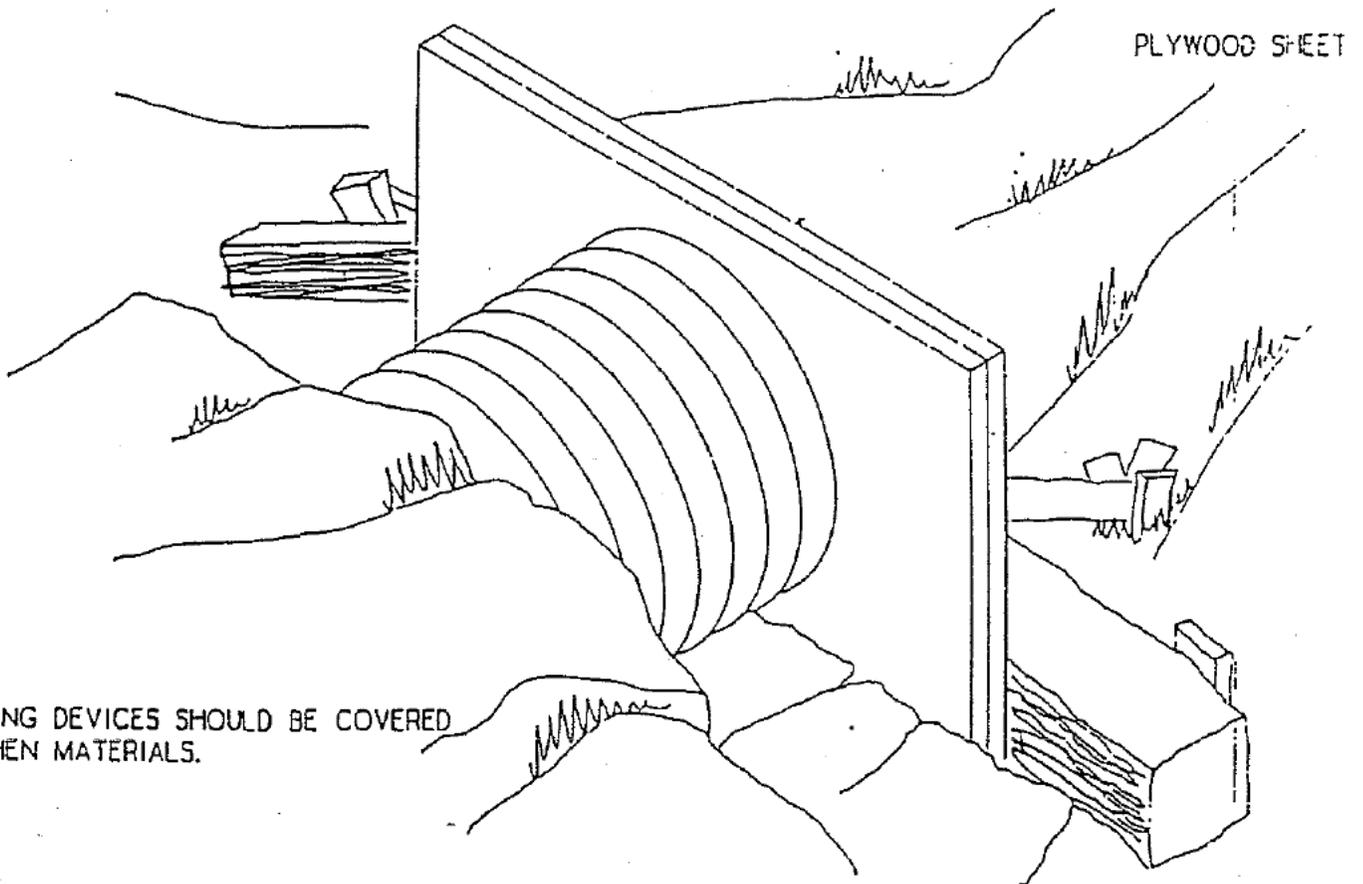
FIGURE 3-5
BERMS BUILT ON LAND



CULVERT BLOCKING



SAND BAGS



PLYWOOD SHEET

BLOCKING DEVICES SHOULD BE COVERED
WITH EARTHEN MATERIALS.

FIGURE 3-7

BLOCKING BOOMS

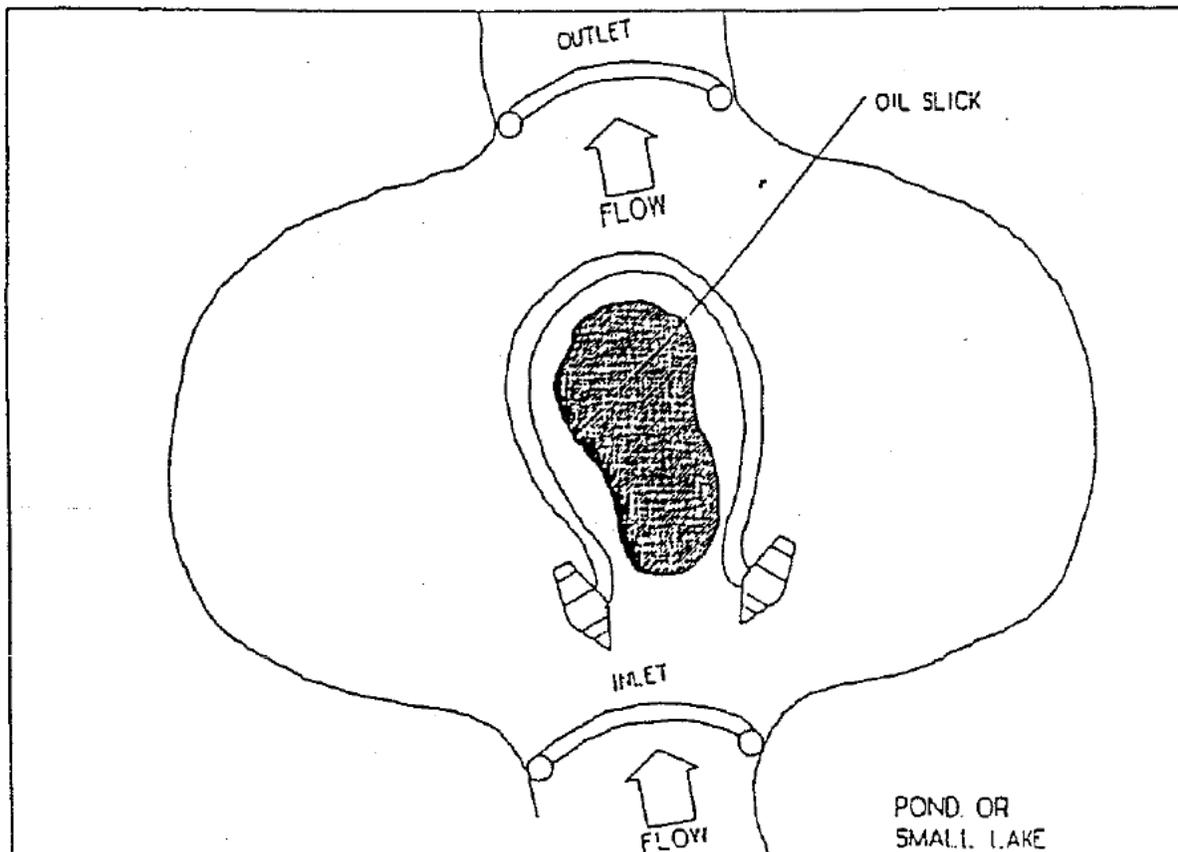
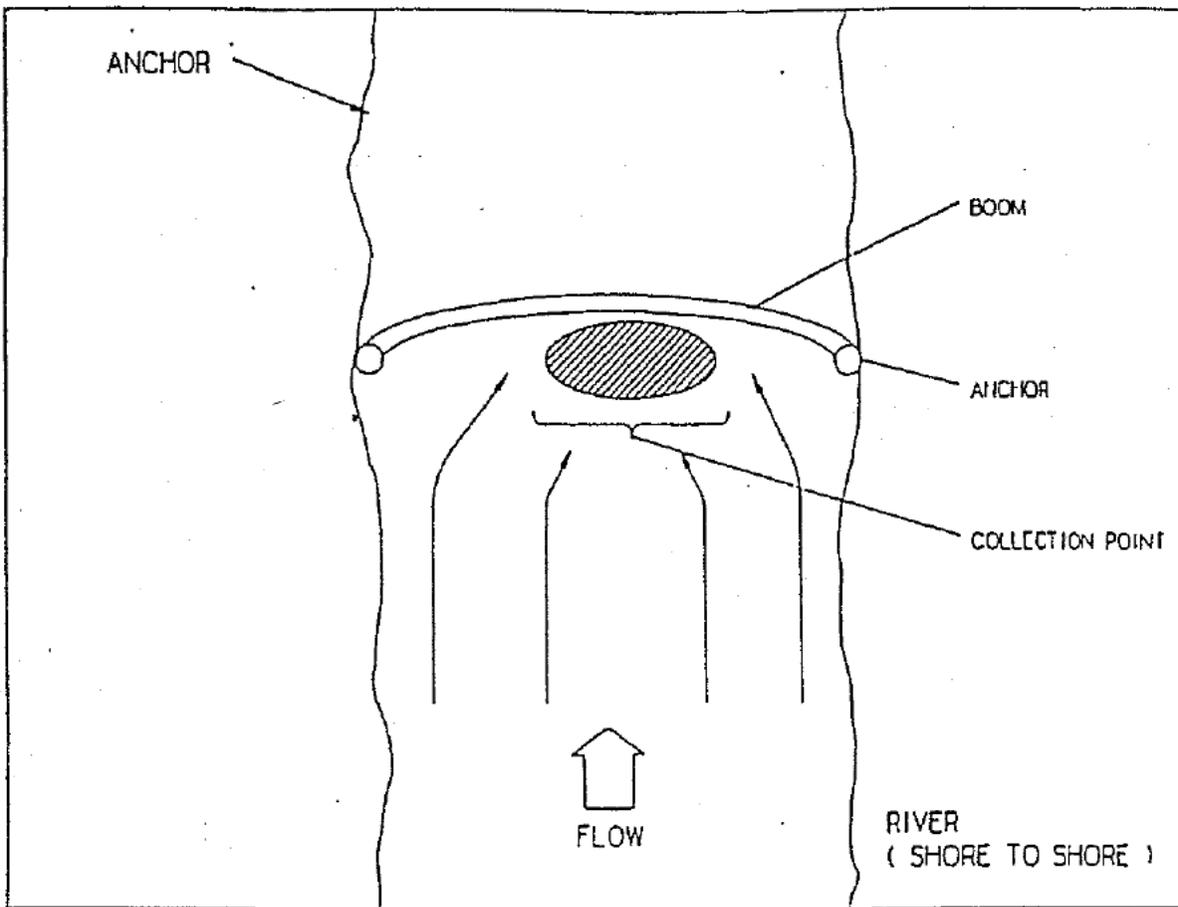
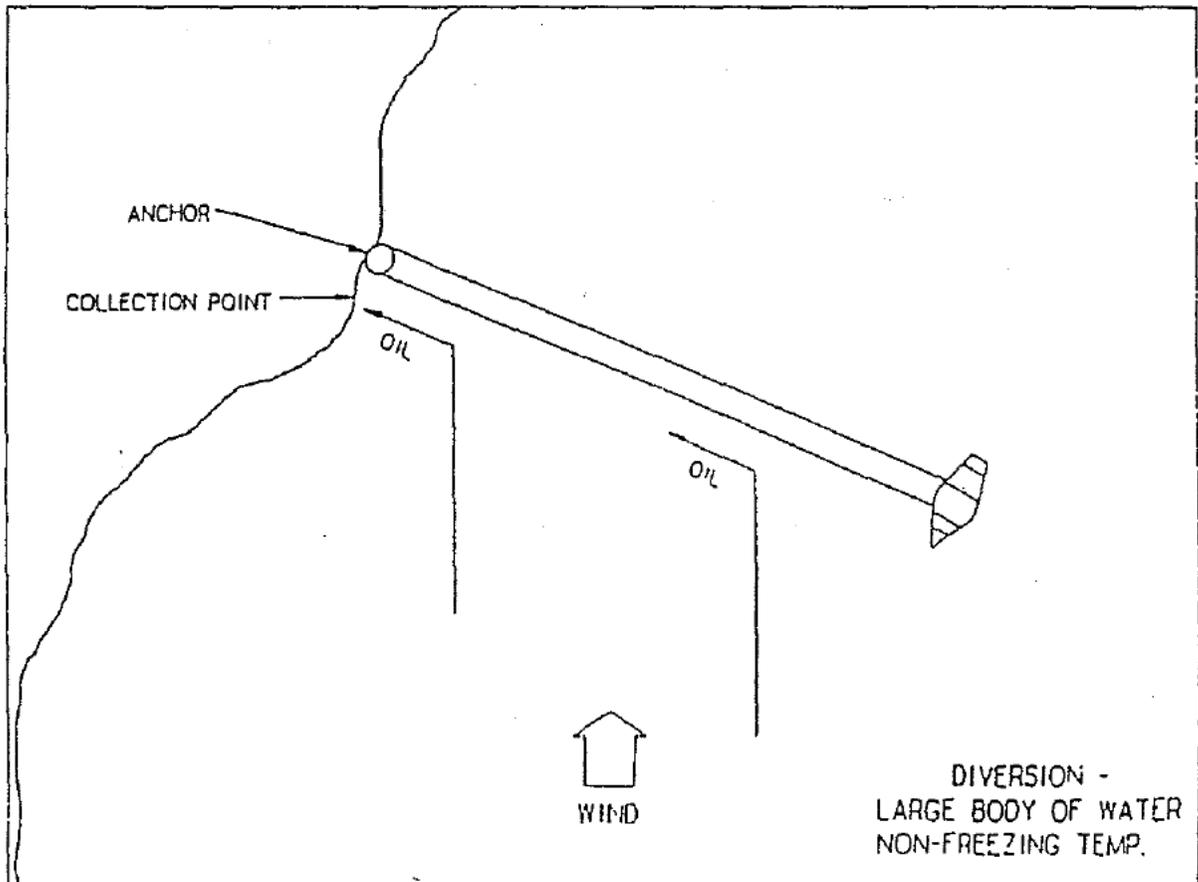
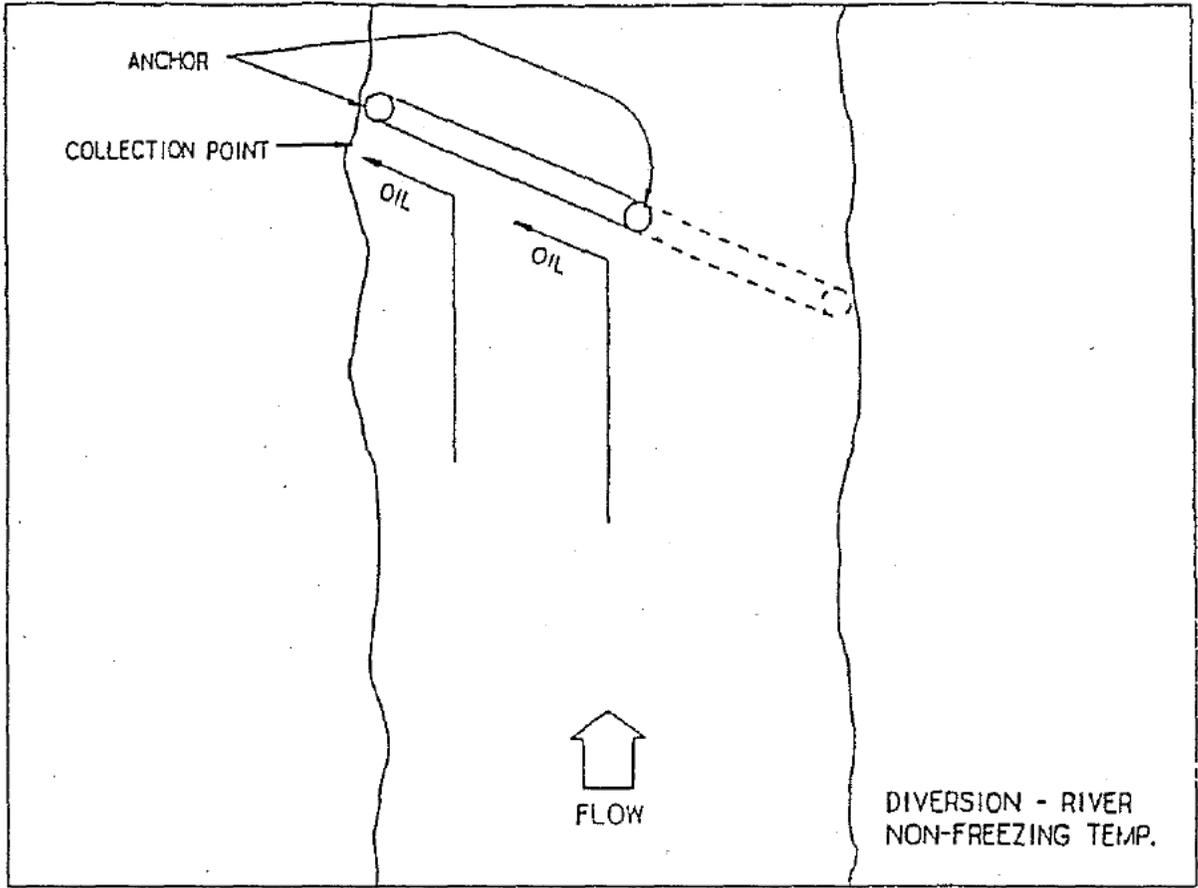


FIGURE 3-8
PHMSA 000113201
DIVERSION BOOMING



Section 4 - Response Activities



Response Activities

When responding to a worst case release of crude oil, several activities must be performed in order to assure success. The following list of response activities outlines the course of action which must be taken.

Unified Command System

In the event of a worst case release of crude oil, the Unified Command System (UCS) will be formed. The purpose of the UCS is to coordinate the decision-making process during the response. The UCS is an emergency response management structure which allows the representatives of the responsible party and Federal, State, and local regulatory agencies to maintain a coordinated response effort; helps to ensure that a coordinated, effective response is carried out; and ensures that the particular needs of all parties involved are taken into consideration. For the UCS to be effective, the UCS must be fully supported by an ICS organization.

Incident Command System (ICS)

The ICS is to provide a management system which organizes the functions, tasks, and staff within the overall emergency response. The ICS will be comprised of five functional sections: Command, Operations, Planning, Logistics, and Finance. The following is a description of these five functional operations and responsibilities:

Command Section

The overall Command Section function will be to set response objectives and undertake coordination efforts with the other four functional sections. The functional sections of Planning, Operations, Logistics, and Finance will report to the Command Section.

The CRCT Operations Manager will assume the position of the Incident Commander in the Command Section. Staff positions within the Command Section will be as follows:

- a) **Information Officer:**
This position will be filled by a Corporate Public Relations staff member who will be designated by the Corporate office. The Information Officer will be responsible for the formulation and release of information about the incident to the news media and the public.
- b) **Safety Officer:**
This position will be filled by a Corporate Environmental, Health, and Safety Department staff member. The Safety Officer will be responsible for monitoring and assessing hazardous and unsafe situations and developing measures for assuring personnel safety.
- c) **Liaison Officer:**
This position will be filled by an Environmental staff member from the Corporate Environmental, Health, and Safety Department. The Liaison Officer is responsible for assisting and cooperating with Federal, State, and local regulatory agencies.

Planning Section

The function of this section will be to investigate and establish technical basis for action plans. The lead person in this section will work closely with the CRCT Pipeline Foreman, who will head up the efforts of the Emergency Response Team, and with the contract oil spill response team leader. The CRCT Pipeline Technician will assume the position of the lead person in this operational function.

Operations Section

The function of this section will be the undertaking of tactical response actions. The lead person in this section will be responsible for coordinating the efforts of the Emergency Response Team as well as those of the contract response organizations. The CRCT Pipeline Environmental & Safety Specialist will assume the position of the lead person in this operational function.

Logistics Section

The function of this section will be the procurement of equipment and supplies needed for the emergency response. The lead person of this section is responsible for making the maximum use of all assigned resources. The CRCT Pipeline Senior Technician will assume the position of the lead person in this operational function.

Finance Section

The function of this section will be the management of finances and tracking the cost of the emergency response activities. The lead person in this function will be responsible for determining the validity of and approving payment of all charges. The CRCT Pipeline Payroll and Materials Specialist will assume the position of lead person in this operational function.

The Operations, Planning, Logistics, and Finance functions will report to the Command Section. Note: Additional information and description of an Incident Command System developed by States/British Columbia oil spill task force can be found in Section 11 of this plan.

Operating Personnel Responsibilities

When operating personnel arrive at the scene of the crude oil discharge, certain actions should be taken prior to the arrival of the Qualified Individual. While responses to oil discharges will vary, the following guidelines will apply in most instances:

- The first person to arrive at the discharge scene should survey the scene and determine such things as the severity of the release, the extent of damage, response equipment needed, cause of the discharge, and potential safety and environmental hazards. This information will be reported by cell phone to the pipeline office, response crew, and the Qualified Individual.
- Attempt to stop or slow down the discharge by closing valves on each side of the discharge point.
- All vehicles should be equipped with hand tools. The first person at the scene should attempt to confine the discharge, if this can be done safely, by using a shovel to construct an earthen dam. This is especially critical if the discharge could enter a navigable waterway.
- When the response crew arrives, the flow of oil should be stopped by using emergency clamps or other temporary repairs.

- Crude oil discharge should be totally contained in the smallest area possible by the use of dams, berms, culvert blocking, interception barriers, boom, and sorbents.
- Upon arrival of the Qualified Individual, the decisions will be made as to reporting requirements, remediation activities, and pipeline repairs.

Responsibilities of the Qualified Individual

While any of the listed Qualified Individuals can perform the function of Incident Commander, the Operations Manager is the designated Qualified Individual who will have the responsibility of Incident Commander. The Qualified Individual has full authority to:

- Contract with and activate oil spill removal organizations
- Activate operator personnel and equipment
- Act as liaison with the On-Scene Coordinator
- Obligate any company funds required to carry out all required and directed oil spill response activities

The primary functions of this position will be as follows:

- Perform the required functions within the framework of the ICS and the UCS
- Determine if all verbal and written notifications to Federal, State, and local governmental agencies has been accomplished
- Determine what remediation activities will be required
- Determine if private contractors and additional equipment will be required and if private contractors have been contacted
- To function as a part of the UCS

Procedures for Coordinating Actions with External Parties

Federal On Scene Coordinator

The National Oil and Hazardous Substances Contingency Plan (NCP or Plan) was developed to effectuate the response powers and responsibilities created by the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the authorities established by Section 311 of the Clean Water Act (CWA).

In the event of a crude oil release that is required to be reported to the National Response Center (NRC), the Regional On-Scene Coordinator (OSC), designated by the EPA, will be notified by the NRC. The Incident Commander will function as the facility representative within the UCS.

Primary information concerning the oil discharge that will be requested by the OSC will include the following:

- Source and cause of the discharge
- Identification of the Potential Responsible Parties (PRP)
- Nature, amount, and location of discharged material
- Probable direction and time of travel of the discharged material
- The pathways to human and environmental exposure
- Potential impact on human health, welfare, safety, and the environment
- Potential impact on natural resources

If the investigation by the OSC determines that the discharge is being properly remediated by the

PRP, the removal action will be monitored to ensure continued proper action. If the discharge is not being remediated properly or equipment and manpower are not adequate, the OSC can recommend activation of the Regional Response Team (RRT).

It will be the responsibility of the pipeline Incident Commander to cooperate and provide requested information to the OSC.

The Incident Command System will be activated at the time a release of crude oil is reported. The Operations Manager who is the designated Qualified Individual will act as the OSC for the duration of the response unless relieved by management decision.

State Agencies

In the event of a release of crude oil, the response representative for the State of Kansas will be the Kansas Department of Health and Environment (KDHE). The response representative for the State of Oklahoma will be the Oklahoma Department of Environmental Quality (ODEQ). A representative from this office will be onsite for any emergency response to a crude oil spill. The representative of this agency will coordinate activities with the Federal On-Scene Coordinator and On-Scene Incident Commander and will be a member of the UCS. If the Federal On-Scene Coordinator elects to designate the State Agency to monitor the response activities, the representative of the State Agency will be responsible for determining what remediation activities will be required and determine if adequate manpower and equipment are on site.

Local Agencies

The Local Emergency Planning Committee (LEPC) representative will be notified of the spill. This representative will work closely with the Federal On-Scene Coordinator, the representative of the State Response Agency, and the Incident Commander to determine what actions will need to be addressed at the local level. This representative will be part of the UCS. The representative from the LEPC will make the determination if the LEPC Emergency Response Plan will be activated. If the LEPC Emergency Response Plan is activated, the LEPC representative will work with local response agencies on actions such as public notification and evacuation procedures.

Representatives from local and state law enforcement agencies will be available to work closely with the UCS and provide such services as traffic control, crowd control, and security recommendations.

Local fire departments, ambulance services, and health care facilities will be available to work with the UCS for such activities as firefighting and the care and transportation of injury victims.

A more in-depth description of the activities of Federal, State and local agencies can be found in the U.S. EPA Regions VI and VII Area Contingency Plans, which are located in the safety office.

Oil Spill Response Organizations

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response Organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder. The OSRO will report to and function under the Operations Section of the Incident Command System.

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a response is required after normal working hours, employees will be contacted via telephone and asked to report to the Bartlesville or Winfield maintenance yard.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on a 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of

- crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on a 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 bbl of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

Note: If additional, non-CRCT, response equipment and response personnel are needed, please contact the following source:

Haz-Mat Response Inc.
 1203 S. Parker
 Olathe, KS 66061
 Telephone: (800) 229-5252 (24-hour number)

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficient trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Zone specific, Effective Daily Recovery Capacity (EDRC) calculations and evaluations for each respective response zones are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in Section 9 of this FRP. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Crude Oil Recovery Capabilities

The following oil recovery equipment is available at the Bartlesville, Winfield, and Plainville facilities with skimmer capacity summarized for each respective response zone, on Table 4-1-B, located in Section 9 of the FRP:

Bartlesville

- Three 2½-ton vacuum trucks with 80 bbl capacity. These trucks can pick up 300 bbl of oil per hour. These will be the primary oil recovery pieces of equipment. These trucks can be at any response zone in the Bartlesville system within one hour. The response time to response zone # 1 (Winfield lake) and response zone # 6 (Walnut River) is approximately two hours.
- Twelve transport trucks with 180 bbl storage capacity. These trucks can pick up crude oil at the rate of 300 bbl per hour. In most situations, the transport trucks will receive the oil from the 2½-ton trucks and transport the oil to the truck unload stations. If necessary, these trucks can also be used to recover oil at a spill site.
- One 2-inch portable centrifugal pump capable of picking up 150 bbl of oil per hour.
- One 1½-inch portable centrifugal pump capable of picking up 75 bbl per hour.
- One 2-inch high pressure gear pump mounted on a 2-wheel trailer capable of picking up oil at a rate of 50 bbl per hour.
- One 2½-inch high pressure gear pump mounted on a 2-wheel trailer capable of picking up oil at a rate of 60 bbl per hour.
- One drum oil skimmer with oil recovery capacity rated at 35 gallon per minute.

Note: The portable pumps and trailer mounted pumps will only be used for oil recovery in the event weather or other conditions prohibit the use of the 80 bbl vacuum trucks.

Winfield

- One 2 ton truck with 20 bbl tank and a low pressure pump capable of picking up oil at a rate of 30 bbl per hour. This truck can be at any response zone in the Winfield system within one

hour. The response time to response zones 2, 3, 4, 5, 7, 8, and 9 approximately 3 hours.

- Four transport trucks with 175 bbl storage capacity. These trucks can pick up crude oil at the rate of 300 bbl per hour. In most situations, the transport trucks will receive the oil from the 2½ ton trucks and transport the oil to the truck unload stations. If necessary, these trucks can also be used to recover oil at a spill site.
- One 2-inch portable centrifugal pump capable of picking up 150 bbl of oil per hour.
- One 2-inch portable centrifugal pump capable of picking up 100 bbl per hour.
- One 2-inch high pressure gear pump mounted on a 2-wheel trailer capable of picking up oil at a rate of 50 bbl per hour.
- Three 1½-inch high pressure gear pumps capable of picking up oil at a rate of 35 bbl per hour.

Note: The portable pumps and trailer mounted pumps will only be used for oil recovery in the event weather or other conditions prohibit the use of the 80 bbl vacuum trucks.

Plainville

- One 2-inch portable centrifugal pump capable of picking up 100 bbl per hour.
- Three 2-inch high pressure gear pumps mounted on skids capable of picking up oil at a rate of 50 bbl per hour.
- One drum oil skimmer with oil recovery capacity rated at 20 gallon per minute.
- The oil recovery equipment from Plainville could be at the response zones in the Winfield area in approximately 8 hours and the response zones in the Bartlesville area in approximately 10 hours.
- It is highly unlikely that the Plainville recovery equipment would be needed in the Winfield or Bartlesville zones, but it is available if needed.

Based on the amount of recovery equipment located at Bartlesville, Winfield, and Plainville, it is the consensus of CRCT that sufficient recovery equipment is available to respond to a worst case discharge and meet or exceed the required recovery rates.

Temporary Storage of Recovered Oil

CRCT operates stations along the pipeline where recovered crude oil can be off loaded into storage tanks and subsequently pumped into the pipeline. Figure 4-1 shows the locations of the temporary storage facilities. Tanks at these locations vary in size from 1,000 bbl to 80,000 bbl. The greatest distance, from a response zone oil recovery area, to one of the crude oil storage tanks is approximately 50 miles. In the majority of cases, a truck unload station will be within 25 miles of an oil recovery area. Temporary storage for each recovery location is listed in Section 3 of this plan and temporary storage capacities are summarized on Table 4-2-B. If necessary, 75 tanker trucks with 180 bbl storage capacity each are available for temporary storage of recovered crude oil.

Considering the close proximity of truck unload stations and crude oil storage tanks, temporary storage of recovered crude oil can be accomplished within the tier times.

Waste Disposal Activities

During oil spill recovery operations, it is probable that some non-usable waste will be generated. This would be in the form of absorbent materials, oil soaked debris, etc. The issue of the storage and

disposal of this waste material must be considered. If possible, the waste material will be placed in plastic bags for disposal. In the case of oil impacted large debris, such as tree limbs, this may not be possible. All oil impacted waste material will be stored in liquid proof containers and transported to an approved landfill. Sullivans Trucking located in Ponca City, Oklahoma, will provide 35-cubic yard roll-off containers for storage of waste material and transport this material to the designated landfill. This company can have containers at any oil recovery location within two hours. The telephone number for this company is: (888) 909-6901. Oil impacted waste material will be disposed of at the Quarry Landfill and Recycling Center in Tulsa, Oklahoma, which would be a maximum of three hours travel time from any oil recovery location. The telephone number for this company is: (918) 437-7773. The close proximity of companies providing services for waste storage and disposal will assure that the planned storage and disposal activities can be accomplished within the tier times.

Response Communications

In a response to a major crude oil release, the Bartlesville pipeline office will be the primary command and communications center. Primary communications will be conducted via cell phone. At the spill site, the Bartlesville emergency response truck will be set up as a field command center. The back-up field command center will be the Winfield emergency response truck which is equipped the same as the Bartlesville response truck.

The onsite Incident Commander will maintain communications with the primary communications center and coordinate all response activities through that office from the field command center. Communications between the primary command center, field command center and emergency response personnel will be by the use of cell phones. When setting up the Unified Command System, each representative in the Unified Command system as well as the OSRO representative and response team leaders will be issued a cell phone at the field command center and the primary communication and command center. In the event that additional communication equipment is needed, Haz-Mat Response Inc., the primary OSRO will provide a communications center equipped with a repeater for communication with hand held radios. This communications system will be set up at the field command center and will be used for communication between the field command center and emergency responders.

Outside Response Organizations

In addition to equipment and supplies available through the Bartlesville and Winfield pipeline facilities, the following is a list of CRCT facilities and the primary contractor OSRO, with 24-hour telephone numbers, who can provide equipment and trained manpower for crude oil discharge response operations in the Bartlesville or Winfield area:

Plainville Pipeline operations
P. O. Drawer C
Plainville, Kansas 67663
Office Number: (785) 434-4832
24-Hour Emergency Number: (785) 543-5246
Coffeyville Resources Refinery
Telephone: (620) 251-4000 (24-hour number)

Haz-Mat Response Inc. (OSRO)
 1203 S. Parker
 Olathe, KS 66061
 Telephone: (800) 229-5252 (24-hour number)

Equipment Mobilization and Deployment

When a report is received that a worst case crude oil spill has occurred or there is a threat of a worst case discharge, the person receiving the call will immediately notify each person on the Emergency Response Team beginning with Qualified Individuals. When response team members have been contacted, they will be asked to report to the Bartlesville or Winfield pipeline yard. Through drills and actual spill response activities, it has been determined that all available response personnel can be at the respective pipeline yards within 45 minutes. All emergency response equipment is stored at the pipeline yards and on the emergency response trucks and can be mobilized in approximately 15 minutes. Bartlesville response personnel can be at any location in response zones 2, 3, 4, 5, 7, 8, and 9 within one hour. Winfield personnel can be at any of these response zones within three hours. Winfield response personnel can be at any location in response zones 1 & 6 within one hour. Bartlesville response personnel can be at these response zones within three hours. Haz-Mat Response Inc., the primary contractor OSRO, is located in Olathe, Kansas, and can be at any location in zones 2, 3, 4, 5, and 7 within three hours and within five hours in zones 1, 6, 8, and 9. Through actual response situations, it has been determined that Haz-Mat Response Inc., can mobilize their response equipment within one hour after notification. It has been determined that response equipment can be mobilized and deployed within the tier times for any response zone.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- Several vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced if necessary will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles

- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Procedures for Documenting Response Decisions, Activities, and Costs

It is critical that there be written documentation for all oil spill response decisions, activities, and costs. The Bartlesville and Winfield pipeline operations have elected to incorporate the documentation forms developed by the National Oceanic and Atmospheric Administration (NOAA) as well as certain documentation forms developed by CRCT. Copies of these documentation forms and instructions for completing the forms can be found in Section 11 of this plan.



Coffeyville Resources Crude Transportation, LLC
P.O. Box 3516
411 NE Washington Boulevard
Bartlesville, Oklahoma 74006
918-333-4111

Figure 4-1
CRCT Pipeline Station Map
Coffeyville Resources Crude Transportation, LLC

Table 4-2-B

Coffeyville Resources Crude Transportation - Bartlesville Zones 1 through 9
Capacity of Adjacent Station Tankage

Distance Ranking and Capacity (b)					
Zone	WCD (bbls) (a)	1st	2nd	3rd	Capacity Evaluation
1	(b) (7)(F), (b) (3)				
2					
3 (e)					
4					
5					
6					
7					
8					
9					

a) WCD = worst case discharge.

bbl = barrels.

b) Stations are ranked from closest to farthest from the Response Zone.

c) Assumes that tank capacity at the Station is 50% of Total Tank Capacity.

d) Per 40 CFR 112.20, Appendix E, Section 12 2: Identified daily storage capacity is equal to twice the effective daily recovery capacity (EDRC) required on-scene. Assumes Tier 3 EDRC for each Response Zone.

e) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent a threat of release. Applicable WCD and required storage capacity are presented should operations resume in the future.

Table 4-3-B
Bartlesville Response Zones 1 through 9
CRCT Station Locations (a)

<u>State</u>	<u>Station Name</u>	<u>Latitude (Deg, Min, Sec)</u>	<u>Longitude (Deg, Min, Sec)</u>	<u>Latitude (Decimal)</u>	<u>Longitude (Decimal)</u>
KS	Phillipsburg	(b) (7)(F), (b) (3)			
KS	Stockton	(b) (7)(F), (b) (3)			
KS	Rice	(b) (7)(F), (b) (3)			
KS	Plainville	(b) (7)(F), (b) (3)			
KS	Laton	(b) (7)(F), (b) (3)			
KS	Couture	(b) (7)(F), (b) (3)			
KS	Bemis	(b) (7)(F), (b) (3)			
KS	Schmeidler	(b) (7)(F), (b) (3)			
KS	Gugler	(b) (7)(F), (b) (3)			
KS	Brull	(b) (7)(F), (b) (3)			
KS	Gorham	(b) (7)(F), (b) (3)			
KS	Roth	(b) (7)(F), (b) (3)			
KS	Susank	(b) (7)(F), (b) (3)			
KS	Bushton	(b) (7)(F), (b) (3)			
KS	Lyons	(b) (7)(F), (b) (3)			
KS	Riverside	(b) (7)(F), (b) (3)			
KS	Hudson	(b) (7)(F), (b) (3)			
KS	Haviland	(b) (7)(F), (b) (3)			
KS	Valley Center	(b) (7)(F), (b) (3)			
KS	Humboldt	(b) (7)(F), (b) (3)			
KS	Brothers	(b) (7)(F), (b) (3)			
KS	Coldwater (CVR Leased) (b)	(b) (7)(F), (b) (3)			
KS	Meade (CVR Leased) (c)	(b) (7)(F), (b) (3)			
KS	Hooser	(b) (7)(F), (b) (3)			
KS	Bowman	(b) (7)(F), (b) (3)			
KS	Broome	(b) (7)(F), (b) (3)			
KS	Tyro	(b) (7)(F), (b) (3)			
KS	Coffeyville	(b) (7)(F), (b) (3)			
OK	Schidler	(b) (7)(F), (b) (3)			
OK	Willow Glen	(b) (7)(F), (b) (3)			
OK	Cherokee (CVR Leased) (d)	(b) (7)(F), (b) (3)			
OK	See	(b) (7)(F), (b) (3)			
OK	Kelley	(b) (7)(F), (b) (3)			
OK	Bartlesville	(b) (7)(F), (b) (3)			
OK	Barnsdall	(b) (7)(F), (b) (3)			
OK	Osage	(b) (7)(F), (b) (3)			
OK	Cushing	(b) (7)(F), (b) (3)			
OK	Wynnewood	(b) (7)(F), (b) (3)			
OK	Eola	(b) (7)(F), (b) (3)			

- a) ° = degrees
' = minutes
" = seconds

- b) Location has not been field verified. S19-T30S-R18W. US EPA - Facility Registry Service (FRS). Accessed October 2013.
c) Location has not been field verified. 5127 X Road, Plains, KS 67869. US EPA - Facility Registry Service (FRS). Accessed October 2013.
d) Location has not been field verified. Oklahoma 8, Cherokee, OK. Google Earth Search. Accessed October 2013.

Section 5 - Contact List for Crude Oil Discharges



Contact List

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of these individuals and organizations:

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Cowley and Butler County)	(316) 337-6020
(Montgomery County)	(620) 431-2390
(Chautauqua County)	(620) 431-2390
(Allen County)	(620) 431-2390
(Neosho County)	(620) 431-2390
(Wilson County)	(620) 431-2390
(Topeka 24-hr number)	(785) 296-1679
Montgomery County Sheriff	(620) 330-1260
Cowley County Sheriff	(620) 221-5555
Butler County Sheriff	(800) 794-0190
Chautauqua County Sheriff	(620) 725-3108
Allen County Sheriff	(620) 365-1400
Neosho County Sheriff	(620) 244-3888
Wilson County Sheriff	(620) 378-3622
Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Local Emergency Planning Committee (Cowley County)	(620) 221-0470
(Montgomery County)	(620) 330-1260
(Chautauqua County)	(620) 429-1857
(Butler County)	(620) 733-9796
(Allen County)	(620) 365-1400
(Neosho County)	(620) 244-3888
(Wilson County)	(620) 378-4455
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233

Caney Water Dept.	(620) 879-9801 or 879-2913
Hulah Water Dist.	(918) 336-0008
Montgomery Co. Fire, Police, Ambulance	911
Winfield Fire, Police, Ambulance	911
Butler County Fire, Ambulance	(316) 321-9260
Chautauqua County Fire, Ambulance	911
Cowley County Fire, Ambulance	(620) 221-2300
Allen Co. Fire, Ambulance	911
Neosho Co. Fire, Ambulance	911
Wilson Co. Fire, Ambulance	911

Discharges in Oklahoma

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VI	(866) 372-7745
Washington Co. Fire, Police, Ambulance	911
Nowata Co. Fire, Ambulance	(918) 273-3532
Oklahoma Corporation Commission (Bristow Office)	(918) 367-3396
(Area Representative)	(918) 807-0997 or (918) 697-3056
ODEQ (Bartlesville)	(918) 333-2734
Osage Nation Environmental and Natural Resources Dept. (Osage Co.)	(918) 287-5333
Corp of Engineers (Copan and Hulah Lakes)	(918) 532-4334
Corp of Engineers (Oologah Lake)	(918) 443-2250
Washington County Sheriff	(918) 337-2800
Nowata County Sheriff	(918) 273-2287
Osage County Sheriff	(918) 287-3131
Highway Patrol (Vinita)	(918) 256-3388
Local Emergency Planning Committee (Washington County)	(918) 336-2710
(Nowata County)	(918) 273-2345
(Osage County)	(918) 287-3131
Osage Indian Agency	(918) 287-5555

Oklahoma One Call	(800) 522-6543
Bartlesville Water Dept.	(918) 338-4282
Copan Water Dept.	(918) 532-4114
Barnsdall Water Dept.	(918) 847-2506
Pawhuska Water Dept.	(918) 287-3260
Nowata Water Dept.	(918) 273-3538
Osage County Rural Water Dist.	(918) 695-7402
Washington County Rural Water Dist.	(918) 336-0500
Hulah Water Dist.	(918) 336-0008

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman (Ext. 5014)	(918) 333-4111		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Insurance Representatives

In the event of a discharge where CRCT would have to assume liability for damages, the insurance

contact is as follows:

Lockton Companies, LLC
5847 San Felipe Street
Suite 320
Houston, Texas 77057
(718) 458-5200

The contact for Corporate Risk Manager at Coffeyville Resources Crude Transportation, LLC is:

Mr. Gary Morrow
(913) 982-0962

In the event of a release involving actual or potential large scale property damage, both of the above should be contacted.

Activation of Response Resources

When a discharge of crude oil occurs, the Operations Manager or other Qualified Individual on the list will be notified. It will be the responsibility of the Operations Manager or another Qualified Individual to activate response resources.

Activation of CRCT resources will be by notification of the applicable Pipeline Foreman by cell phone or telephone.

Activation of Plainville pipeline equipment and personnel will be by telephone. A telephone listing of the Plainville pipeline can be found in Section 4 of this plan.

Section 6 - Training



Safety Instructions and Training

Besides specific job instructions and on-the-job training, each employee will receive safety instructions and training on the following items as a minimum:

- All designated CRCT employees as well as the primary contract emergency responder will have a current Hazard Waste Operation and Emergency Response (HAZWOPER) training certification
- Safety and health policies
- Accident prevention programs
- Safe work practices
- Pipeline safety rules
- Specific instructions on hazards unique to each employee's work assignment (this is to be handled formally by the Supervisor and the Environmental & Safety Specialist)
- Characteristics and hazards of the crude oil to be transported in the pipeline including flammability of mixture with air or oxygen.
- Conditions that are potentially hazardous and are likely to cause emergencies
- Potential consequences of facility malfunctions or failures and the response actions to be taken if they should occur
- Potential hazards and consequences of crude oil spills and the appropriate actions to be taken should they occur. Instructions are to cover procedures to control accidental releases of crude oil from the pipeline and minimize the potential for fire, explosion, toxicity, or environmental damage.
- Fire protection systems and equipment provided for personal protection (i.e. clothing and breathing apparatus). Employees are to be taught how and when to use this equipment.
- Firefighting procedures and equipment provided or available for fighting fires. Employees are to be taught the proper use and location of this equipment. In addition to classroom instruction, actual drills utilizing simulated pipeline emergencies will be employed where feasible for training purposes. Attendance in firefighting classes provided by outside sources will be encouraged.
- Maintenance and field personnel will receive special instructions on how to safely repair the pipeline facilities. Procedures such as isolation and purging will be part of this training.
- Emergency procedures and reporting requirements (injuries, accidents, fires, oil or chemical spills, accidental discharges, utility failures, etc.).
- Instruction on when and how to use personal protective equipment.

Safety training is an ongoing program. Safety training subjects are covered at monthly safety meetings.

Facility Response Plan Training

In addition to safety training, all response personnel at the Bartlesville, Winfield, and Plainville pipeline facilities will receive training on the following:

- The responsibility of all response personnel.
- The procedure for contacting the operator on a 24-hour basis.

- The procedure for contacting the Qualified Individual on a 24-hour basis.
- Content of the plan information summary for all reporting personnel.
- Emergency reporting requirements including telephone numbers of the National Response Center, State and local emergency numbers, and procedures for contacting agencies.

While some of the above training is covered at the annual HAZWOPER review and monthly safety meetings, in-depth training will be conducted after final review and acceptance of the FRP. Refresher training will be conducted annually or when the plan changes.

Specialized Training

All designated pipeline personnel at the Bartlesville, Winfield, and Plainville pipeline facilities have received the OSHA required HAZWOPER 24-hour training. All response personnel have been trained at the "technician level". Training requirements at this level are outlined in 29 CFR 1910.120 (q) (6) (iii) and have been complied with.

All designated employees receive annual HAZWOPER refresher training which complies with 29 CFR 1910.120 (q) (8).

All pipeline personnel are currently certified in First Aid and CPR through the American Red Cross program.

Documentation of Effectiveness of Training

Effectiveness of training classes will be determined by using post-testing. Tests will be maintained in the employees training file at each pipeline office.

Operator Employee Training Records

Training for all Bartlesville, Winfield, and Plainville pipeline employees is recorded with a brief description of the training given, the date of the training, signature of the employee, and the name of the individual who conducted the training. A copy of each employee's training file will be maintained at the respective operator's headquarters. Records will be maintained for each employee as long as the employee has assigned duties under the plan. A record of each training instructor and training organization will be maintained at the operator's headquarters.

Training for Supervisors

The Supervisors will receive all safety training given to other employees. However, their training will be in much more detail and depth than the training provided to other employees. Supervisors will receive detailed training for reporting emergencies and accidents and for performing accident investigations and cause analyses. The Transportation Training Coordinator will be responsible for providing this training.

Indoctrination of New and Transferred Employees

Safety instruction for new employees is of the utmost importance. Without exception, all new employees will be given safety instructions before they report to their job assignments. This indoctrination will be provided by the Transportation Training Coordinator and the Department Supervisor.

All new employees are to be familiarized with company and plant policies and practices. A major portion of the indoctrination will be concerned specifically with health and safety. This training will be provided by the Transportation Training Coordinator.

Employee Participation in the Safety Program

Employee participation in the safety program provides an effective medium for additional training. Consequently, every endeavor will be made to encourage and solicit employee participation in the program.

Section 7 - Drill Procedures



Drill Procedure Requirements

CRCT generally follows the National Preparedness for Response Exercise Program (PREP) for response exercise requirements. The following are the major requirements for Pipeline Operations:

Requirements for Pipeline Operations

The Oil Pollution Act of 1990 requires a training program for employees of all facilities subject to the regulations. The PREP was developed by the EPA, Coast Guard, Pipeline and Hazardous Materials Safety Administration, and the Minerals Management Service.

Internal exercise requirements for the 3 year cycle are as follows:

- 12 Quarterly Qualified Individual Notification drills, with at least one per calendar year during non-business hours.
- 3 Annual Spill Management Team Tabletop Exercises (one must involve a Worst Case Discharge Scenario).
- 3 Annual Facility-Owned Equipment Deployment Exercises with the facility-owned equipment identified in the FRP.
- 3 Annual Unannounced Exercises (the table top or equipment deployment exercise, if conducted unannounced, will satisfy this annual requirement).

External exercise requirements for the 3 year cycle are as follows:

- 60 Area Exercises nationwide. (These are determined and coordinated by federal agencies and may or may not include the CRCT pipeline facilities. CRCT will participate as requested).

Facility/Plan Type	Quarterly	Annual	Triennial
CRCT Facility Response Plan Meeting PREP Guidelines (e.g. – OPA 90)	N or N1	T and ED3 (At least one unannounced)	TWCD
Legend:			
N Notification of Qualified Individuals			
N1 Notification of Qualified Individuals (At Least Once per Calendar Year During non-Business Hours)			
T Table Top			
ED3 Equipment Deployment (CRCT or OSRO equipment)			
TWCD Tabletop Including Worst Case Discharge Scenario			

The following are the types of plan core components that must be exercised at least once every three years:

Organizational Design

- 1) Notifications
- 2) Staff mobilization
- 3) Ability to operate within the response management system described in the plan

Operational Response

- 1) Discharge control
- 2) Assessment of discharge
- 3) Containment of discharge
- 4) Recovery of spilled material
- 5) Protection of economically and environmentally sensitive areas
- 6) Disposal of recovered product

Response Support

- 1) Communications
- 2) Transportation
- 3) Personnel support
- 4) Equipment maintenance and support
- 5) Procurement
- 6) Documentation

Note: Credit for exercises may be taken for an actual spill response when the objectives are met and a proper record generated.

Drill Records

All drill records will be maintained for a minimum of three years. Records of each drill will be located at the Bartlesville pipeline facility. All records of drills will be available for inspection by a representative of the Department of Transportation.

Section 8 - Response Plan Review and Update Procedures



Response Plan Review and Update

Whenever there is a response to a discharge of crude oil or a drill within a response zone, supervisory personnel will conduct a critique of the activities initiated during that response. During this critique, the FRP is subject to revision to reflect any clarifications, additions, or deletions.

The FRP will be reviewed and resubmitted to Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) for approval every five years. The plan will be reviewed by the Operations Manager, Pipeline Foreman, and Environmental & Safety Specialist. Any changes to the plan will be made after consultation with management personnel and Qualified Individuals.

If a new or different operating condition or information would substantially affect the implementation of the FRP, CRCT will immediately modify the plan to reflect such a change and, within 30 days submit the change to PHMSA.

Factors which may cause revisions to the FRP include the following:

- An extension of the existing pipeline by new construction or purchase or lease of additional pipeline.
- Relocation or replacement of the pipeline in a way that substantially affects the information included in the FRP, such as a change to the worst case discharge volume.
- If there is a change in the type of oil transported.
- A change in the name of the OSRO.
- A change in emergency response procedures.
- A change in Qualified Individual status.
- A change in the NCP or an ACP that has significant impact on the equipment appropriate for response activities.
- A change in ownership of the pipeline.
- Post-drill evaluation results.
- Post-incident evaluation results.
- Any other information relating to circumstances that may affect full implementation of the plan.

Section 9 - Response Zone Appendices



Response Zone # 1 Appendix

Response Zone # 1 Description

The Valley Center Station to Hooser Station consists of one line section of 6-inch pipeline, identified as the "Valley Six Inch". This line section crosses near the center of Winfield City Lake, in Winfield Kansas. At the north side of the lake the pipeline begins to cross the lake in the SE ¼ of the NW ¼ of Section 15, T-31S, R-5E. At the south side of the lake the pipeline exits in the NW ¼ of the SE ¼ of Section 15, T-31S, R-5E.

One section of 4-inch pipeline crosses at the extreme east end of the lake. At the north side of the lake the pipeline begins to cross the lake in the SE ¼ of the SE ¼ of Section 11, T-31S, R-5E. At the south side of the lake the pipeline exits in the NE ¼ of the NE ¼ of Section 14, T-31S, R-5E. These two line sections are the only ones which would affect this response zone.

Response Zone # 1 Location

Winfield City Lake is 10 miles NE of Winfield in Cowley County Kansas. The legal location is Sections 9, 10, 11, 12, 13, 14, 15, 16, 21, and 22, T-31S, R-5E (see map at the end of the Zone 1 Tab).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water and a state recreational area.

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		

Darren Brake (918) 333-4111
Maintenance Foreman (Ext. 5014)

Marvin McDonald (918) 333-4111
Trucking Manager (Ext. 5009)

John Bullen (918) 333-4111
Truck Coordinator (Ext. 5016)

Earl Burns (918) 333-9644
Truck Coordinator (Ext. 5004)

Mike Cogdill (918) 333-4111
EHS Supervisor (Ext. 5005)

Sheila Leach (918) 333-4111
EHS Technician (Ext. 5025)

(b) (6)

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of

the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Cowley County, Kansas, contact the Wichita office at (620) 337-6020.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is (785) 296-1679. The regular call to the Wichita office should also be made the next business day.

Persons reporting a discharge should have the following information available:

- Name of pipeline
- Type of oil released
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)

Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.

- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as booms and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks

- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor

- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 1, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 1 Tab. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps

- Air blowers
- Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Cowley County) (Topeka 24-hr number)	(620) 337-6020 (785) 296-1679
Corp of Engineers	(918) 669-7325
Cowley County Sheriff	(620) 221-5555
Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Cowley County Fire, Ambulance	(620) 876-5555
Winfield Fire, Police, Ambulance	911
Local Emergency Planning Committee (Cowley County)	(620) 221-5555
Kansas One Call (If calling from outside State of Kansas)	(316)-687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233

Winfield Water Dept.

(620) 221-5600

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity.

If a worst case discharge occurred, and the pressure drop was not great enough to trigger the automatic low pressure shutoff device and the release was not reported, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the worst case discharge (WCD) is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists; OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

The worst case discharge in this zone would be a release from the 6-inch line crossing Winfield City Lake. (b) (3), (b) (7)(F)

(b) (3), (b) (7)(F) Worst case discharge estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)

Potentially Affected Public Drinking Water Intakes, Lakes, Rivers, and Streams Within A Five Mile Radius Of Line Section

(b) (7)(F), (b) (3)

Environmentally Sensitive Area Within a One Mile Radius of the Line Section

Winfield Lake is a source of public drinking water and a state recreation area; it would be considered an environmentally sensitive area.

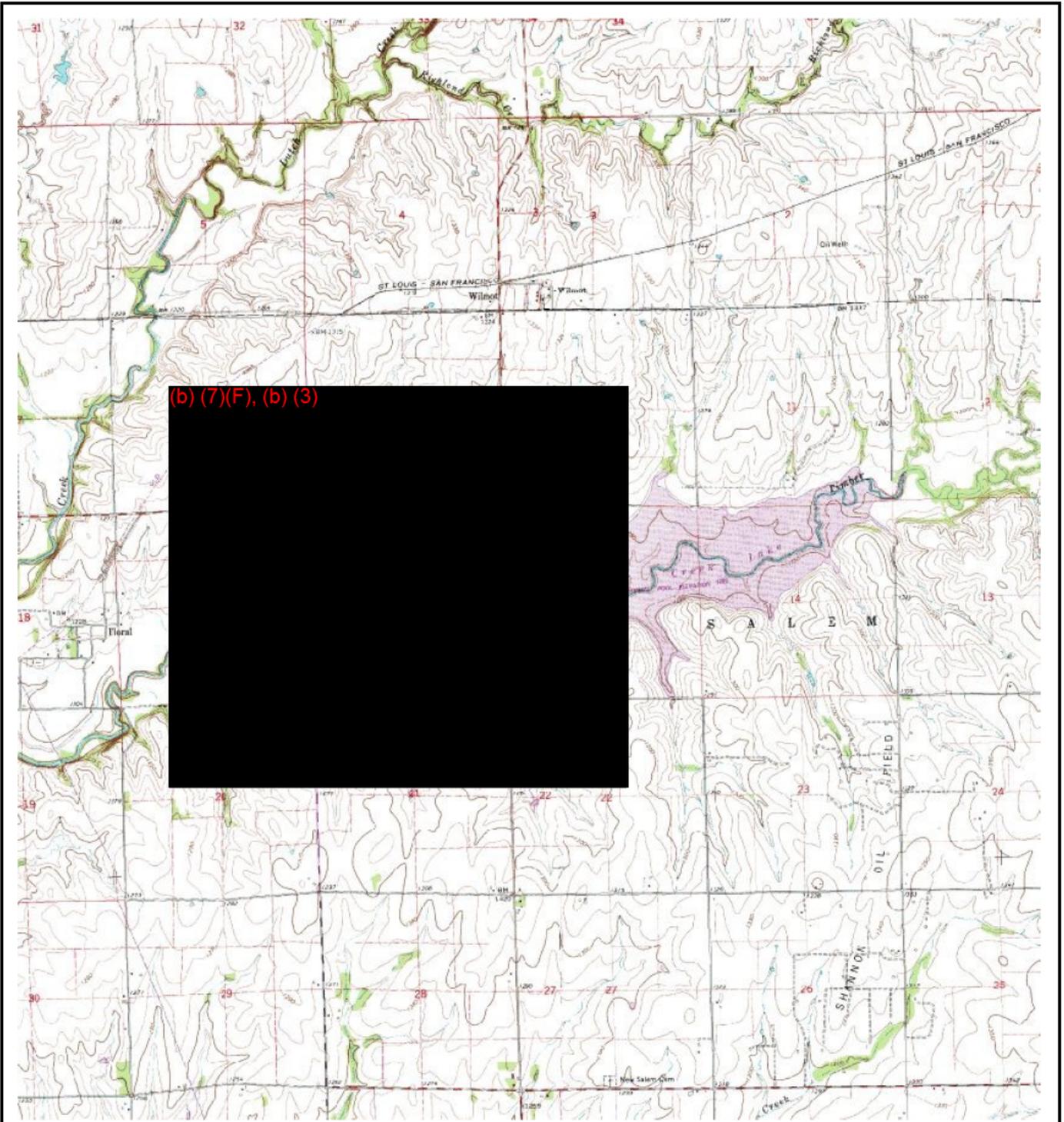
Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 1 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 1 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

Safety Data Sheets

Included in this Plan is a safety data sheet which complies with 29 CFR 1910.1200.



Reference

TopoZone.com Maps a la carte Inc.
Custom Map Created 10/26/05

● - Response Location



Quadrangle Location



Approximate Scale in feet



Coffeyville Resources Crude Transportation, LLC
 P.O. Box 3516
 411 NE Washington Boulevard
 Bartlesville, Oklahoma 74006
 918-333-4111

Zone 1
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R			Potential Lake Access		
	OK	Washington	Caney River	Crosstimbbers, T&E Species, Recreation	3 (f)	5	A, S	C D R			Shoreline Access		
	OK	Washington	Caney River	Crosstimbbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R		275	Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominy Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominy Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneyshell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

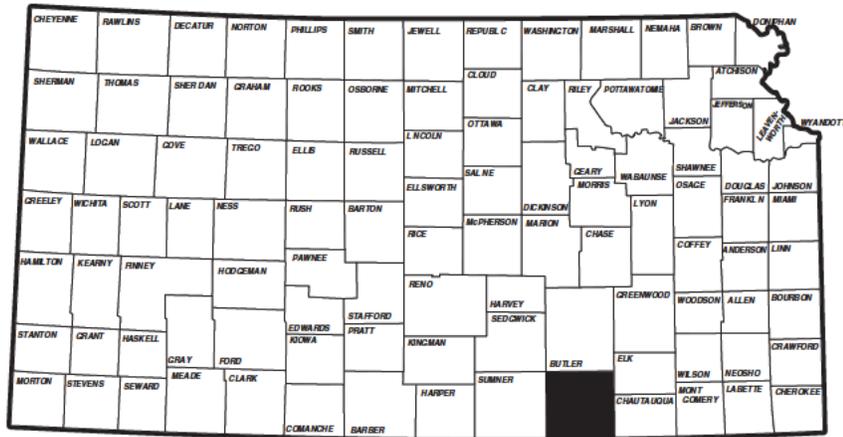
Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
Neosho	American Burying Beetle	E	E	N/A				
	Bald Eagle	T	T	7				
	Butterfly Mussel	T	N	7				
	Common Map Turtle	T	N	N/A				
	Eastern Spotted Skunk	T	N	N/A				
	Eskimo Curlew	E	E	N/A				
	Flat Floater Mussel	E	N	N/A				
	Flutedshell Mussel	T	N	7				
	Least Tern	E	E	N/A				
	Neosho Madtom	T	T	7				
	Neosho Mucket Mussel	E	N	7				
	Ouachita Kedneyshell Mussel	T	N	7				
	Peregrine Falcon	E	N	N/A				
	Piping Plover	T	T	N/A				
	Rabbitsfoot Mussel	E	N	7				
	Redspot Chub	T	N	N/A				
	Snowy Plover	T	N	N/A				
	Western Fanshell Mussel	E	N	N/A				
	Wilson	American Burying Beetle	E	E	7			
		Bald Eagle	T	T	N/A			
Butterfly Mussel		T	N	N/A				
Common Map Turtle		T	N	N/A				
Eastern Spotted Skunk		T	N	7				
Eskimo Curlew		E	E	N/A				
Flutedshell Mussel		T	N	N/A				
Least Tern		E	E	N/A				
Neosho Mucket Mussel		E	N	N/A				
Ouachita Kedneyshell Mussel		T	N	N/A				
Peregrine Falcon		E	N	N/A				
Piping Plover		T	T	N/A				
Rabbitsfoot Mussel		E	N	N/A				
Snowy Plover		T	N	N/A				
Western Fanshell Mussel		E	N	N/A				
<u>County in Oklahoma</u>		Nowata	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>		
	Bald Eagle						AD, T	N/A
	Neosho Mucket Mussel						E	4
	Peregrine Falcon						DM	N/A
	Piping Plover	E, T	4					
	Osage	Bald Eagle		AD, T	N/A			
		Least Tern		E	N/A			
		Neosho Mucket Mussel		E	8			
		Peregrine Falcon		DM	N/A			
		Piping Plover		E	8			
	Whooping Crane		E, EXPN	8				
	Washington	Bald Eagle		AD, T	N/A			
		Neosho Mucket Mussel		E	9			
		Peregrine Falcon		DM	N/A			
		Piping Plover		T	9			
	Whooping Crane		E, EXPN	N/A				

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

COWLEY COUNTY

COUNTY LOCATOR MAP



STATUS KEY

- THR = Threatened
 END = Endangered
 SNC = Species In Need of Conservation
 CAN = Candidate Listing
 NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

- American Burying Beetle** *Nicrophorus americanus*
 State: END Federal: END Critical Habitat: NO
- Arkansas Darter** *Etheostoma cragini*
 State: THR Federal: CAN Critical Habitat: YES
- Arkansas River Shiner** *Notropis girardi*
 State: END Federal: THR Critical Habitat: YES
- Arkansas River Speckled Chub** *Macrhybopsis tetramema*
 State: END Federal: NA Critical Habitat: YES
- Bald Eagle** *Haliaeetus leucocephalus*
 State: THR Federal: THR Critical Habitat: YES
- Eastern Spotted Skunk** *Spilogale putorius*
 State: THR Federal: NA Critical Habitat: NO
- Eskimo Curlew** *Numenius borealis*
 State: END Federal: END Critical Habitat: NO
- Least Tern** *Sterna antillarum*
 State: END Federal: END Critical Habitat: NO
- Peregrine Falcon** *Falco peregrinus*
 State: END Federal: NA Critical Habitat: NO
- Piping Plover** *Charadrius melodus*
 State: THR Federal: THR Critical Habitat: NO
- Silver Chub** *Macrhybopsis storeriana*
 State: END Federal: NA Critical Habitat: YES
- Snowy Plover** *Charadrius alexandrinus*
 State: THR Federal: NA Critical Habitat: NO
- Topeka Shiner** *Notropis topeka*
 State: THR Federal: END Critical Habitat: NO
- Whooping Crane** *Grus americana*
 State: END Federal: END Critical Habitat: NO

SPECIES IN NEED OF CONSERVATION (SINC)

- Black Tern** *Chlidonias niger*
 State: SNC Federal: NA Critical Habitat: NA
- Bobolink** *Dolichonyx oryzivorus*
 State: SNC Federal: NA Critical Habitat: NA
- Brindled Madtom** *Noturus miurus*
 State: SNC Federal: NA Critical Habitat: NA
- Cerulean Warbler** *Dendroica cerulea*
 State: SNC Federal: NA Critical Habitat: NA
- Creeper Mussel** *Strophitus undulatus*
 State: SNC Federal: NA Critical Habitat: NA
- Curve-Billed Thrasher** *Toxostoma curvirostre*
 State: SNC Federal: NA Critical Habitat: NA
- Eastern Hognose Snake** *Heterodon platirhinos*
 State: SNC Federal: NA Critical Habitat: NA
- Fat Mucket Mussel** *Lampsilis radiata*
 State: SNC Federal: NA Critical Habitat: NA
- Ferruginous Hawk** *Buteo regalis*
 State: SNC Federal: NA Critical Habitat: NA
- Golden Eagle** *Aquila chrysaetos*
 State: SNC Federal: NA Critical Habitat: NA
- Plains Minnow** *Hypognathus placitus*
 State: SNC Federal: NA Critical Habitat: NA
- River Shiner** *Notropis blenniuis*
 State: SNC Federal: NA Critical Habitat: NA
- Short-eared Owl** *Asio flammeus*
 State: SNC Federal: NA Critical Habitat: NA
- Spotted Sucker** *Minytrema melanops*
 State: SNC Federal: NA Critical Habitat: NA
- Texas Mouse** *Peromyscus attwaterii*
 State: SNC Federal: NA Critical Habitat: NA
- Wabash Pigtoe Mussel** *Fusconaia flava*
 State: SNC Federal: NA Critical Habitat: NA
- Western Hognose Snake** *Heterodon nasicus*
 State: SNC Federal: NA Critical Habitat: NA
- Whip-poor-will** *Camprimulgus vociferus*
 State: SNC Federal: NA Critical Habitat: NA
- Yellow Sandshell Mussel** *Lampsilis teres*
 State: SNC Federal: NA Critical Habitat: NA

Table 4-1-B

Zone 1
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bbbl)	Vacuum Recovery Rate (bpd)	Average Skimmer Recovery Rate (bpd)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25			43						
CRCT-Plainville Station	Skimmer	1									
CRCT-Winfield Office	Vacuum Truck	1		300							
CRCT-Winfield Office	Transport with pump	25									
CRCT-Winfield Office	Skimmer	1			28						
CRCT-Bartlesville Station	Vacuum Truck	4		300							
CRCT-Bartlesville Station	Transport with pump	25									
CRCT-Bartlesville Station	Skimmer	1									
CRCT (all stations)	Skimmer	1			71.5						
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Hertel - Hays, KS	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
Hertel - Hays, KS	Skimmer	1			25						
ACME - Tulsa, OK	Skimmer	4			80						
Veolia - Kansas City, MO	Vacuum Truck	6		300							
Veolia - Kansas City, MO	Skimmer	1			80						
A Clean Environment - Tulsa, OK	Skimmer	6			245						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- a) EDRC Effective Daily Recovery Capacity.
CRCT Coffeyville Resources Crude Transportation, LLC.
CRT Coffeyville Resources Terminal, LLC.
bpd barrels per day.
bpd barrels per day.
hr. hour.
- b) Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
Hertel Hertel Tank Service, Inc., Hays, KS.
ACME ACME Environmental Spill Response Resources, Tulsa, OK.
Veolia Veolia Environmental Services, Kansas City, MO.
A Clean Environment, Tulsa, OK.
- c) Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
- d) Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
- e) Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- f) Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- g) Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Full quantity identified available for Tier 3 Response.
- h) Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 $R = D \times U$, where
 R—Effective daily recovery capacity;
 D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 U—Hours per day that equipment can operate under discharge conditions.
 CRT can sustain recovery operations for 12 hours per day.
 i) Summation of skimmer rate (bpd) based on $R = D \times U$.
 j) Summation of vacuum truck rate (bpd) based on $R = D \times U$.
 k) Summation of transport rate based on $R = D \times U$. Assumes 6 hrs for travel, load, and unload.
 l) Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement

CRCT Owned and Contracted EDRC: (b) (7)(F), (b) (3)
EDRC CAP Required Per 40CFR 112.20 Appendix E:

EDRC Requirement Evaluation: MET MET MET

EDRC Identified Resources Requirement

CRCT Contracted EDRC above CAP (b) (7)(F), (b) (3)
CRCT Identified EDRC above CAP

CRCT Contracted and Identified EDRC above CAP
EDRC Required Per 40CFR 112.20 Appendix E (i)

EDRC Requirement Evaluation: MET MET MET

EDRC Total Requirement

CRCT Owned, Contracted, and Identified EDRC: (b) (7)(F), (b) (3)
EDRC Required Per 40CFR 112.20 Appendix E:

EDRC Requirement Evaluation: MET MET MET

**Zone 1 Worksheet
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)**

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 of 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1588
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
<u>Explosion Data</u>	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

<u>NFPA</u>	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
-----------------	--

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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil,3,UN1267,PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL,3,UN1267,PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto,3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

WPS-CF-002 - Crude Oil

Revision Date January 2007

16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

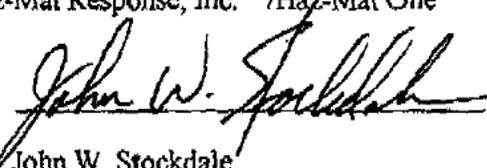
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-905-0290

Fax #: 913-782-6206

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

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3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

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 - Statutory Limits.
- E. Professional Liability:
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17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

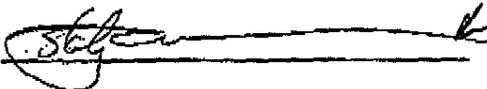
or at such other address as either shall have designated by notice to the other party.

22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

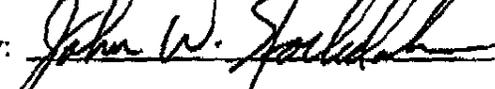
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

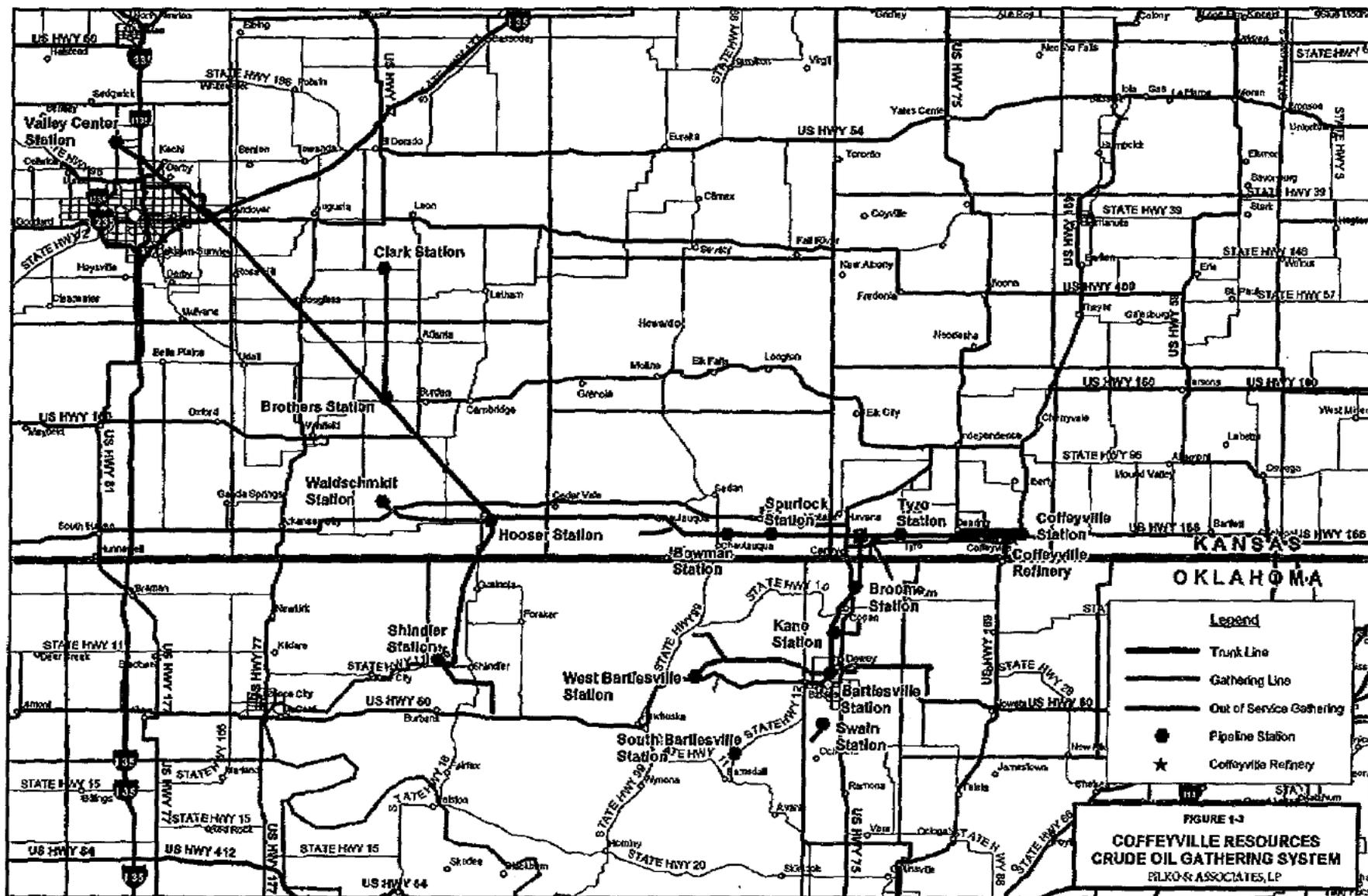
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A

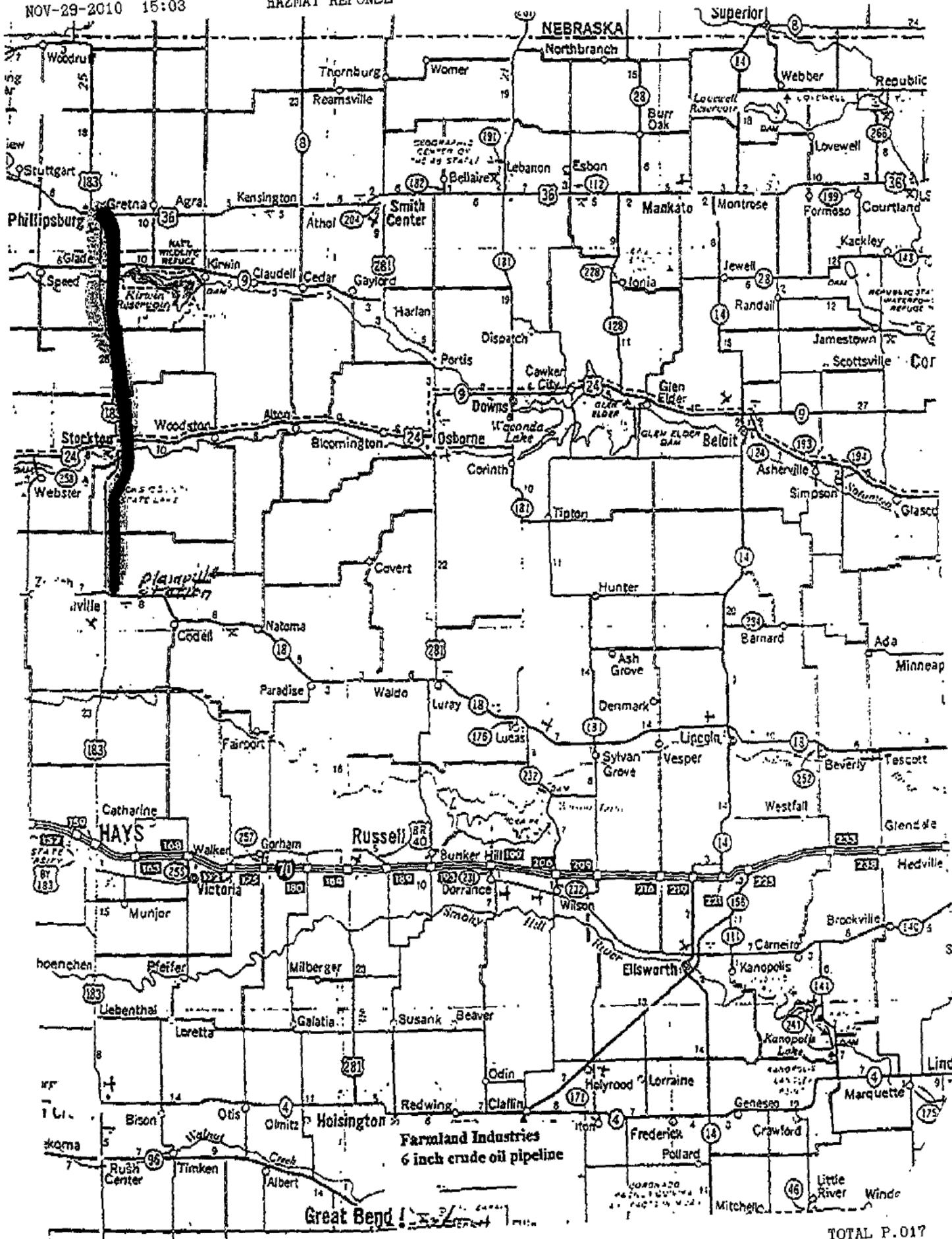


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HAZMAT REPOSENSE



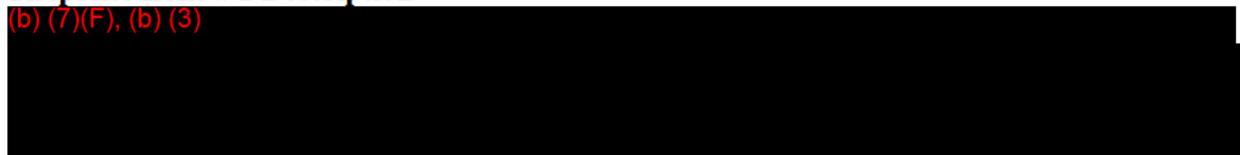
Farmland Industries
6 inch crude oil pipeline

Great Bend!

Response Zone # 2 Appendix

Response Zone # 2 Description

(b) (7)(F), (b) (3)



This is the only pipeline section which would affect this response zone.

Response Zone # 2 Location

The Copan State Wildlife Management Area is located immediately west and northwest of Caney in Montgomery County, Kansas. The legal location is Sections (b) (7)(F), (b) (3) (see map at the end of the Zone 2 tab).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a state recreation area and a state wildlife management area. (b) (7)(F), (b) (3) flowing into the wildlife management area is also a source of public drinking water for the city of Caney, Kansas.

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

(Qualified Individuals on next page)

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman	(918) 333-4111 (Ext. 5014)		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures For Reporting Oil Discharges**National Response Center**

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body or water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

Corp of Engineers

Any discharge of crude oil that would affect the Copan Lake area must be reported to the Corp of Engineers at: (918) 687-7325.

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Montgomery County, Kansas, contact the Chanute office at (620) 431-2390.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is (785) 296-1679. The regular call to the Chanute office should also be made the next business day.

Persons reporting a discharge should have the following information available:

- Name of pipeline
- Type of oil released
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene

- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)

Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area. The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone.

If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as booms and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom

- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 2, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 2 Tab. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene

of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Montgomery County)	(620) 431-2390
(Topeka 24-hr number)	(785) 296-1679
Corp of Engineers	(918) 669-7325
Montgomery County Sheriff	(620) 330-1260

Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Montgomery Co. Fire, Police, Ambulance	911
Local Emergency Planning Committee (Montgomery County)	(620) 330-1260
Kansas One Call (If calling from outside State of Kansas)	(316)-687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233
Caney Water Dept.	(620) 879-9802 or 879-2911
Montgomery Co. Fire, Police, Ambulance	911

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at an approximately gravity range of 35.0 to 40.0.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the volume of the largest breakout tank in the zone and applying a 50 percent prevention credit for the breakout tank within adequate secondary containment.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

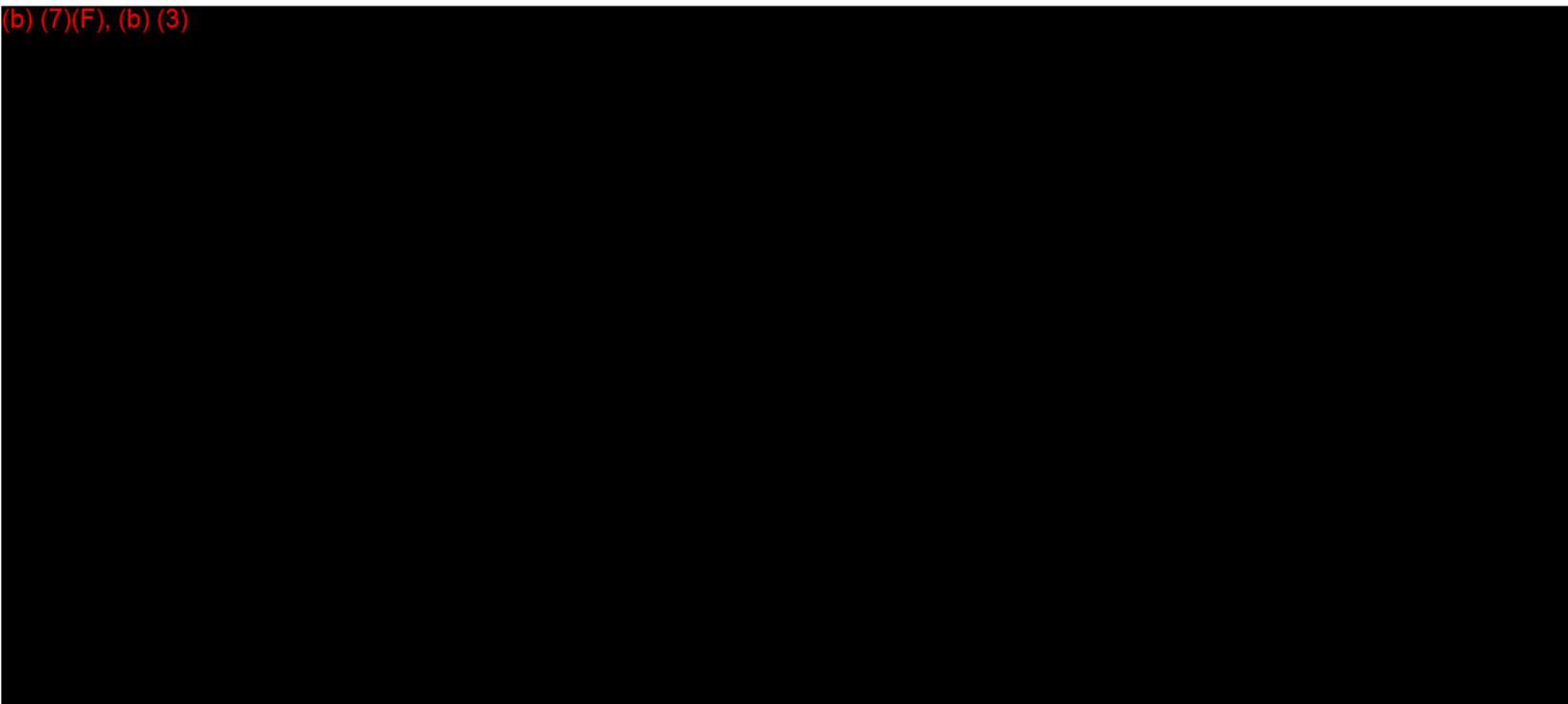
(b) (3), (b) (7)(F)

If the release reached the Little

Caney River, the oil could impact the wildlife management area. The Hooser Station to Broome Station pipeline and associated breakout tanks are continuously monitored (b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)



Potentially Affected Public Drinking Water Intakes, Lakes, Rivers, and Streams Within A Five Mile Radius Of Line Section

(b) (7)(F), (b) (3)

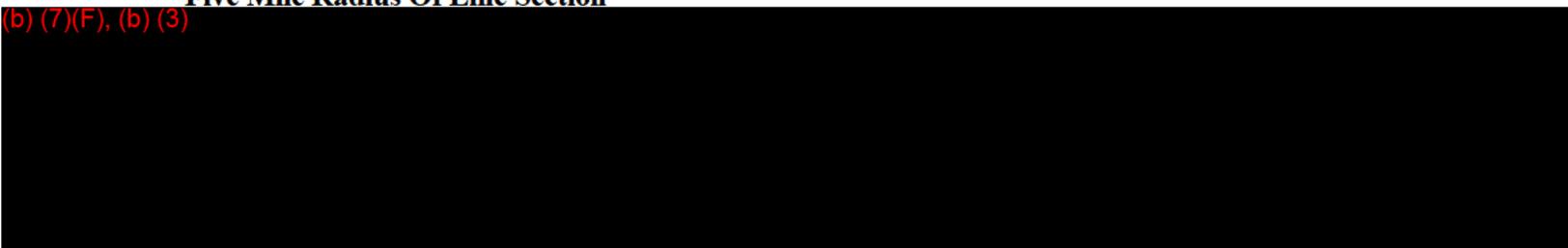


Table 1, included in this Section, presents the surface water bodies, sensitive habitats/areas, their priority, and a description of the response locations and protection strategies. Table 1 was prepared in accordance with Appendix F of 40 CFR Part 112, and consistent with the planning distances provided in Section 1. A map of the Zone 2 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 2 Tab.

Environmentally Sensitive Area Within A One Mile Radius Of The Line Section

The Copan State Wildlife Management Area is approximately one mile south of the pipeline, and would be considered an environmentally sensitive area.

Table 2, included in this Section, presents the threatened and endangered species that may be present

in the areas listed on Table 1. A map of the Zone 2 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 2 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at an approximate gravity range of 35.0 to 40.0 and considered to be a sweet crude oil.

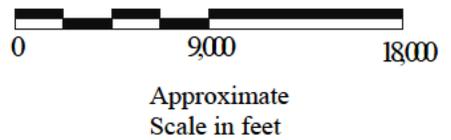
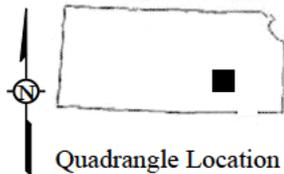
Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.

Reference

TopoZone.com Maps a la carte Inc.
Custom Map Created 10/26/05

- - Water Intake
- - Response Location



Coffeyville Resources Crude Transportation, LLC
 P.O. Box 3516
 411 NE Washington Boulevard
 Bartlesville, Oklahoma 74006
 918-333-4111

Zone 2
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R		Potential Lake Access			
	OK	Washington	Caney River	Crosstimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R		Shoreline Access			
	OK	Washington	Caney River	Crosstimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R		275	Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominny Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominny Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita KedneysheIl Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita KedneysheIl Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita KedneysheIl Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>	
Neosho	American Burying Beetle	E	E	N/A	
	Bald Eagle	T	T	7	
	Butterfly Mussel	T	N	7	
	Common Map Turtle	T	N	N/A	
	Eastern Spotted Skunk	T	N	N/A	
	Eskimo Curlew	E	E	N/A	
	Flat Floater Mussel	E	N	N/A	
	Flutedshell Mussel	T	N	7	
	Least Tern	E	E	N/A	
	Neosho Madtom	T	T	7	
	Neosho Mucket Mussel	E	N	7	
	Ouachita Kedneysshell Mussel	T	N	7	
	Peregrine Falcon	E	N	N/A	
	Piping Plover	T	T	N/A	
	Rabbitsfoot Mussel	E	N	7	
	Redspot Chub	T	N	N/A	
	Snowy Plover	T	N	N/A	
	Western Fanshell Mussel	E	N	N/A	
	Wilson	American Burying Beetle	E	E	7
		Bald Eagle	T	T	N/A
Butterfly Mussel		T	N	N/A	
Common Map Turtle		T	N	N/A	
Eastern Spotted Skunk		T	N	7	
Eskimo Curlew		E	E	N/A	
Flutedshell Mussel		T	N	N/A	
Least Tern		E	E	N/A	
Neosho Mucket Mussel		E	N	N/A	
Ouachita Kedneysshell Mussel		T	N	N/A	
Peregrine Falcon		E	N	N/A	
Piping Plover		T	T	N/A	
Rabbitsfoot Mussel		E	N	N/A	
Snowy Plover		T	N	N/A	
Western Fanshell Mussel		E	N	N/A	
<u>County in Oklahoma</u>		Nowata		Bald Eagle	AD, T
	Neosho Mucket Mussel			E	4
	Peregrine Falcon			DM	N/A
	Piping Plover			E, T	4
	Osage		Bald Eagle	AD, T	N/A
			Least Tern	E	N/A
			Neosho Mucket Mussel	E	8
			Peregrine Falcon	DM	N/A
			Piping Plover	E	8
	Whooping Crane	E, EXPN	8		
	Washington		Bald Eagle	AD, T	N/A
			Neosho Mucket Mussel	E	9
			Peregrine Falcon	DM	N/A
			Piping Plover	T	9
	Whooping Crane	E, EXPN	N/A		

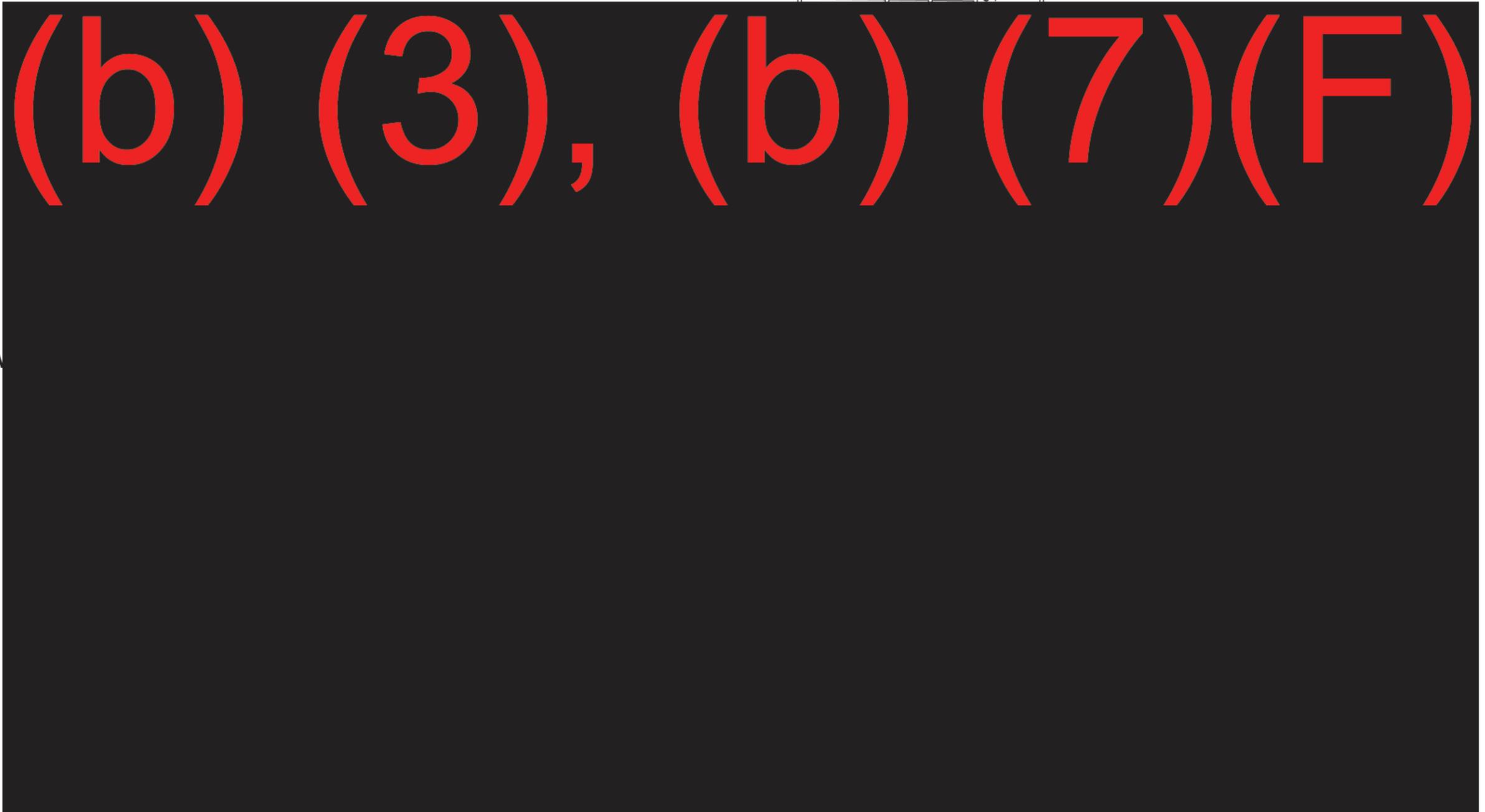
E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

COPAN LAKE

PUBLIC HUNTING AREA

T 29 N T 28 N

orton Cr.



HAVA

PUBLIC USE AREAS

- 1 Washington Cove
- 2 Copan Point
- 3 Anglers Point
- 4 Post Oak Park
- 5 Osage Plains

LEGEND

- Paved Road
- Improved Road
- Dirt Road
- Project Boundary
- Corps Areas Open For Hunting
- State Areas Open For Hunting
- See Restrictions

RESERVOIR DATA
 Top of conservation pool El. 710.0
 30 shoreline miles at El. 710.0
 Total project land & water acreage 15932



**US Army Corps
of Engineers**
Tulsa District

COPAN

Copan Wildlife Area is located a half mile west of Caney on 6th Street. The Kansas Department of Wildlife and Parks has a license from the Corps of Engineers on 2,360 acres for fish and wildlife management.

The wildlife area in Kansas is part of an overall Corps of Engineers project

with a dam located near the town of Copan, Oklahoma. Copan Lake (located in Oklahoma) has 5,000 acres at conservation pool. Although none of the conservation pool is located on the Kansas side of the project, periods of peak flooding will inundate low areas along the river.

The Little Caney River bisects the wildlife area and provides excellent fishing opportunities. The riparian habitat provides an abundance of wildlife species. Area maintenance and development projects are funded through the sale of fishing and hunting licenses and federal excise taxes on hunting and fishing equipment.

FISHING

The Little Caney River provides excellent stream fishing. White bass and crappie travel upstream from Copan Lake for spawning in the spring and provide area anglers with excellent fishing. A low-water dam on the wildlife area provides a barrier to fish moving upstream, providing excellent spring fishing with minnows and artificial jigs.

Boating is confined to small craft or canoes due to the numerous logjams on the river. A dirt boat ramp located near the 6th Street bridge provides river access for small boats.

Channel and flathead catfish can be taken with rod and reel or setlines using live or prepared bait. During mid-summer, grasshoppers are excellent bait for channel cat, with an occasional bonus of largemouth or spotted bass. The numerous stumps and overhanging trees provide excellent "fishing holes" for all species.

Largemouth and spotted bass inhabit the Little Caney River. Both species are taken in the spring using minnows and jigs. October can be a very productive month for bass using jigs or minnows around tree roots or stumps.

WILDLIFE

Hunters will find many opportunities and diversified habitat, including riparian, woodlands, native grass, cropland, and numerous waterfowl marshes. White-tailed deer, turkey, squirrels, bobwhite quail, waterfowl, and rabbits are abundant. Five waterfowl marshes have been constructed to attract migrating waterfowl along the Little Caney River. The waterfowl marshes were previously borrow areas for fill dirt in the Caney levee, and often have naturally occurring vegetation, such as smartweed, to attract waterfowl. Deep water near the dike make chest waders a necessity. Non-toxic shot is required while hunting waterfowl.

Bobwhite quail and cottontail rabbits also inhabit the area. Their populations fluctuate annually due to the high frequency of flooding, but they recover quickly.

Birdwatchers, photographers and wildlife enthusiasts will find many unique viewing opportunities. The large pileated woodpecker is common among the mature

trees along the Little Caney River. The sandstone outcroppings along the bluff northeast of the city dam provide excellent scenery for hikers.

WHITE-TAILED DEER

The numerous block of woodlands interspersed with cropland provide excellent hunting. Many firearm hunters take a stand along one of the woodland fingers that border the cropland. Early-season bowhunters have excellent success using the same areas.

SQUIRRELS

Squirrel hunters can also find an abundance of fox and gray squirrels in the numerous oaks and hickories.

Many hunters prefer the .22 caliber for hunting squirrels, but shotguns are often used to bag the nervous gray squirrel, especially early in the season. Fox squirrels can be found in the Osage orange hedgerows and field borders.

THINGS TO REMEMBER

Vehicles are permitted on maintained roads only.

Primitive camping is permitted, but please take your trash with you.

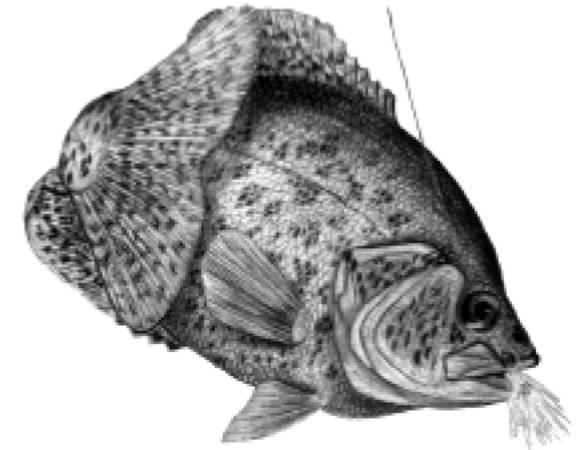
Consult area information signs for additional rules and regulations on the area.



General Area Map

Equal opportunity to participate in and benefit from programs described herein is available to all individuals without regard to race, color, national origin, sex, religion, age or handicap. Complaints of discrimination should be sent to Office of the Secretary, Kansas Department of Wildlife and Parks, 900 Jackson St., Suite 502, Topeka, KS 66612. 700

Copan Wildlife Area



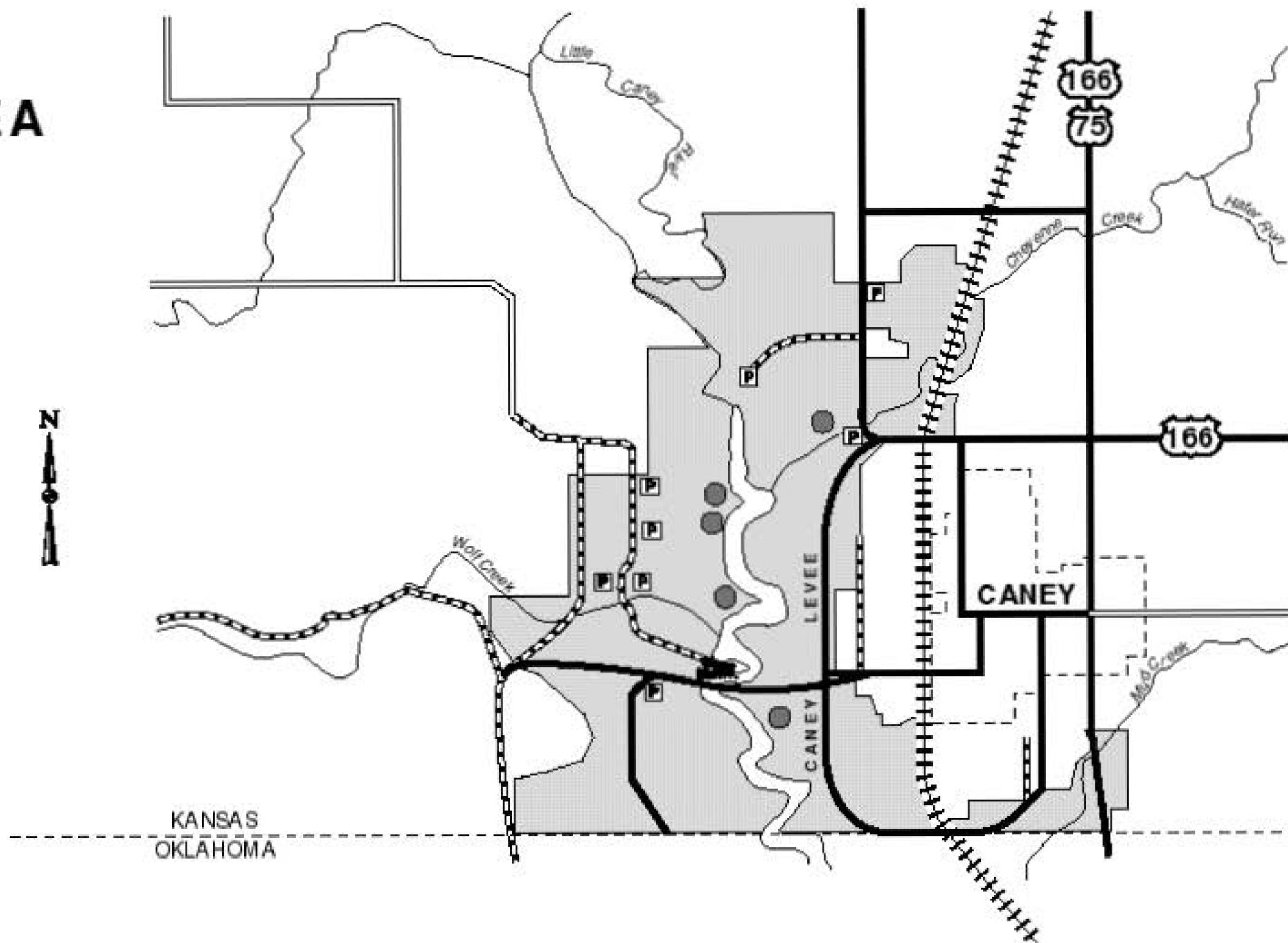
Elk City Fish & Wildlife Office
5089 Co. Rd. 2925
Independence, KS 67301
(316) 331-6820 (Area Office)
(316) 431-0380 (Regional Office)

Department Website:
www.kdwp.state.ks.us

COPAN WILDLIFE AREA

LEGEND

Hunting Area	
Paved Roads	
Gravel Roads	
Unimproved Roads	
Railroad	
Town	
Parking Lot	
Marshes	
Boat Ramp	





Species In Need of Conservation Known or Likely to Occur in Montgomery County, Kansas

Alligator Snapping Turtle - *Macrolemys temminckii* (Troost)

Black Tern - *Chlidonias niger* (Linnaeus)

Cerulean Warbler - *Dendroica cerulea* (Wilson)

Creeper Mussel - *Strophitus undulatus* (Say)

Deertoe Mussel - *Truncilla truncata* (Rafinesque)

Eastern Chipmunk - *Tamias striatus* (Linnaeus)

Eastern Hognose Snake - *Heterodon platirhinos* (Latreille)

Fawnsfoot Mussel - *Truncilla donaciformis* (Lea)

Ferruginous Hawk - *Buteo regalis* (Gray)

Glossy Snake - *Arizona elegans* (Kennicott)

Highfin Carpsucker - *Carpionodes velifer* (Rafinesque)

Prairie Mole Cricket - *Gryllotalpa major* (Sauss)

Reg-Shouldered Hawk - *Buteo lineatus* (Gmelin)

River Redhorse - *Moxostoma carinatum* (Cope)

Round Pigtoe Mussel - *Pleurobema coccineum* (Conrad)

Short-Eared Owl - *Asio flammeus* (Pontoppidan)

Slough Darter - *Etheostoma gracile* (Girard)

Wabash Pigtoe Mussel - *Fusconaia flava* (Rafinesque)

(Continued)

Montgomery County, Kansas (cont.)

Wartyback Mussel - *Quadrula nodulata* (Rafinesque)

Washboard Mussel - *Megalonaias nervosa* (Rafinesque)

Yellow Sandshell Mussel - *Lampsilis teres* (Rafinesque)



**THREATENED AND ENDANGERED SPECIES
KNOWN OR LIKELY TO OCCUR
IN
MONTGOMERY COUNTY, KANSAS**

American Burying Beetle (*Nicrophorus americanus*) - Endangered: Known to occur in suitable habitat. Prefers loose sandy/clay loam soils in grasslands and along upland woodland edges. *Critical habitat has been designated.* Endangered nationally.

Bald Eagle (*Haliaeetus leucocephalus*) - Threatened: Known to occur as a regular seasonal transient or winter resident. *Critical habitat has been designated.* Threatened nationally.

Butterfly Mussel (*Ellipsaria lineolata*) - Threatened: An obligate riverine mussel preferring clean water with good current over gravel substrate. Currently has been documented in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

Common Map Turtle (*Graptemys geographica*) - Threatened: Semi-aquatic in nature, this turtle may occur in large streams, lakes and oxbows having abundant basking sites, slow to moderate current, soft substrate with much aquatic vegetation, and tree-lined banks. Historically occurred throughout eastern Kansas south of the Kansas River and east of the Flint Hills.

Eastern Spotted Skunk (*Spilogale putorius interrupta*) - Threatened: Known to occur near woodland edges in grasslands with shrub clumps or rock outcrops, and in abandoned farmsteads where old buildings or debris piles provide cover. *Critical habitat has been designated.*

Eskimo Curlew (*Numenius borealis*) - Endangered: Formerly a regular spring migrant using plowed fields, heavily grazed and burned grasslands. Was most common in the eastern 2/3 of the state, but has not been verified in Kansas since 1902. A few birds may still migrate through the state. Endangered nationally.

Flutedshell Mussel (*Lasmigona costata*) - Threatened: An obligate riverine mussel dependent upon clean riffles comprised of small to medium size gravel with clean water having moderate current.

Least Tern (*Sterna antillarum*) - Endangered: Known to occur as an uncommon seasonal transient or summer visitant. Endangered nationally.

Neosho Mucket Mussel (*Lampsilis rafinesqueana*) - Endangered: An obligate riverine mussel preferring shallow clean-flowing water over a substrate of fine to medium size gravel. Currently known in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

(continued)

Montgomery Co. Threatened & Endangered Species - Page 2

Ouachita Kidneyshell Mussel (*Ptychobranhus occidentalis*) - Threatened: An obligate riverine mussel requiring clean-flowing water over gravel substrate. Known to occur at much reduced numbers in main stems and major tributaries of the Verdigris River. ***Critical habitat has been designated.***

Peregrine Falcon (*Falco peregrinus*) - Endangered: May occur as an uncommon seasonal transient or winter visitant. Prefers areas with large concentrations of waterfowl.

Piping Plover (*Charadrius melodus*) - Threatened: May occur as a rare seasonal transient at sparsely vegetated shorelines of stream, marshes, or impoundments. Threatened nationally.

Rabbitsfoot Mussel (*Quadrula cylindrica cylindrica*) - Endangered: A riverine mussel requiring clear streams with sandy gravel substrates and moderate currents. Currently known in the Verdigris River. ***Critical habitat has been designated.***

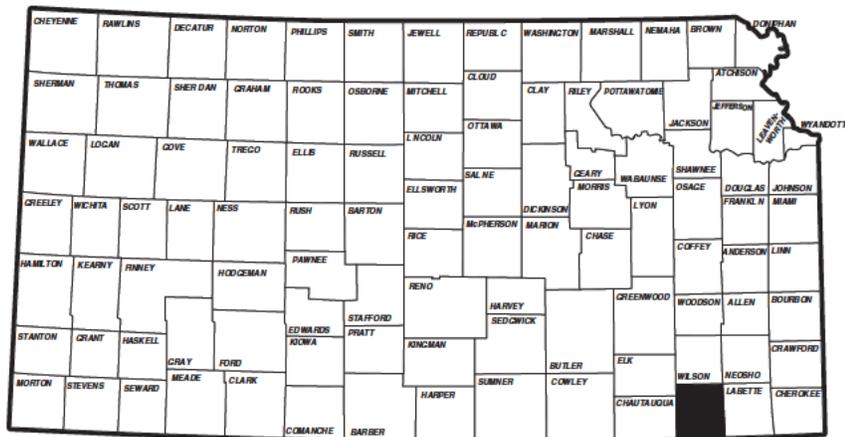
Snowy Plover (*Charadrius alexandrinus*) - Threatened: May occur as an occasional seasonal transient and summer visitant at sparsely vegetated wetlands and impoundment shorelines.

Western Fanshell Mussel (*Cyprogenia aberti*) - Endangered: An obligate riverine mussel found in mud, sand, gravel, and cobble substrate, generally associated with riffles with less than three feet of water depth. Only scattered individuals have been recently documented in the Verdigris River. ***Critical habitat has been designated.***

White-faced Ibis (*Plegadis chihi*) - Threatened: May occur as an occasional seasonal or summer visitant at wetlands and impoundments.

MONTGOMERY COUNTY

COUNTY LOCATOR MAP



STATUS KEY

THR = Threatened

END = Endangered

SNC = Species In Need of Conservation

CAN = Candidate Listing

NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

American Burying Beetle *Nicrophorus americanus*
State: END Federal: END Critical Habitat: YES

Bald Eagle *Haliaeetus leucocephalus*
State: THR Federal: THR Critical Habitat: YES

Butterfly Mussel *Ellipsaria lineolata*
State: THR Federal: NA Critical Habitat: YES

Common Map Turtle *Graptemys geographica*
State: THR Federal: NA Critical Habitat: NO

Eastern Spotted Skunk *Spilogale putorius*
State: THR Federal: NA Critical Habitat: YES

Eskimo Curlew *Numenius borealis*
State: END Federal: END Critical Habitat: NO

Flutedshell Mussel *Lasmigona costata*
State: THR Federal: NA Critical Habitat: NO

Least Tern *Sterna antillarum*
State: END Federal: END Critical Habitat: NO

Neosho Mucket Mussel *Lampsilis rafinesqueana*
State: END Federal: NA Critical Habitat: YES

Ouachita Kidneyshell Mussel *Pychobranchus occidentalis*
State: THR Federal: NA Critical Habitat: YES

Peregrine Falcon *Falco peregrinus*
State: END Federal: NA Critical Habitat: NO

Piping Plover *Charadrius melodus*
State: THR Federal: THR Critical Habitat: NO

Rabbitsfoot Mussel *Quadrula cylindrica*
State: END Federal: NA Critical Habitat: YES

Snowy Plover *Charadrius alexandrinus*
State: THR Federal: NA Critical Habitat: NO

Western Fanshell Mussel *Cyprogenia aberti*
State: END Federal: NA Critical Habitat: YES

SPECIES IN NEED OF CONSERVATION (SINC)

Alligator Snapping Turtle *Macrochelys temminckii*
State: SNC Federal: NA Critical Habitat: NA

Black Tern *Chlidonias niger*
State: SNC Federal: NA Critical Habitat: NA

Brindled Madtom *Noturus miurus*
State: SNC Federal: NA Critical Habitat: NA

Cerulean Warbler *Dendroica cerulea*
State: SNC Federal: NA Critical Habitat: NA

Creeper Mussel *Strophitus undulatus*
State: SNC Federal: NA Critical Habitat: NA

Deertoe Mussel *Truncilla truncata*
State: SNC Federal: NA Critical Habitat: NA

Eastern Hognose Snake *Heterodon platirhinos*
State: SNC Federal: NA Critical Habitat: NA

Fawnsfoot Mussel *Truncilla donaciformis*
State: SNC Federal: NA Critical Habitat: NA

Ferruginous Hawk *Buteo regalis*
State: SNC Federal: NA Critical Habitat: NA

Glossy Snake *Arizona elegans*
State: SNC Federal: NA Critical Habitat: NA

Highfin Carpsucker *Carpiodes velifer*
State: SNC Federal: NA Critical Habitat: NA

Prairie Mole Cricket *Gryllotalpa major*
State: SNC Federal: NA Critical Habitat: NA

Reg-Shouldered Hawk *Buteo lineatus*
State: SNC Federal: NA Critical Habitat: NA

River Redhorse *Moxostoma carinatum*
State: SNC Federal: NA Critical Habitat: NA

Round Pigtoe Mussel *Pleurobema coccineum*
State: SNC Federal: NA Critical Habitat: NA

Short-eared Owl *Asio flammeus*
State: SNC Federal: NA Critical Habitat: NA

Slough Darter *Etheostoma gracile*
State: SNC Federal: NA Critical Habitat: NA

Wabash Pigtoe Mussel *Fusconaia flava*
State: SNC Federal: NA Critical Habitat: NA

Wartyback Mussel *Quadrula nodulata*
State: SNC Federal: NA Critical Habitat: NA

Washboard Mussel *Megaloniais nervosa*
State: SNC Federal: NA Critical Habitat: NA

Yellow Sandshell Mussel *Lampsilis teres*
State: SNC Federal: NA Critical Habitat: NA

Federally Endangered, Threatened, Proposed, and Candidate Species in Oklahoma

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>Birds</u>		
<i>Vermivora bachmanii</i>	Bachman's warbler	LE-EX
<i>Vireo atricapilla</i>	Black-capped vireo	LE
<i>Numenius borealis</i>	Eskimo curlew	LE-EX
<i>Sterna antillarum</i>	Interior least tern	LE
<i>Campephilus principalis</i>	Ivory-billed woodpecker	LE-EX
<i>Tympanuchus pallidicinctus</i>	Lesser prairie chicken	PT
<i>Charadrius melodus</i>	Piping plover	LT
<i>Anthus spragueii</i>	Sprague's pipit	C
<i>Picoides borealis</i>	Red-cockaded woodpecker	LE
<i>Grus americana</i>	Whooping crane	LE
<u>Fishes</u>		
<i>Etheostoma cragini</i>	Arkansas darter	C
<i>Notropis girardi</i>	Arkansas River shiner	LT
<i>Percina pantherina</i>	Leopard darter	LT
<i>Noturus placidus</i>	Neosho madtom	LT
<i>Amblyopsis rosae</i>	Ozark cavefish	LT
<u>Insects</u>		
<i>Nicrophorus americanus</i>	American burying beetle	LE
<u>Mammals</u>		
<i>Mustela nigripes</i>	Black-footed ferret	LE-EX
<i>Myotis grisescens</i>	Gray bat	LE
<i>Canis lupus</i>	Gray wolf	LE-EX
<i>Ursus arctos horribilis</i>	Grizzly bear	LT-EX
<i>Myotis sodalis</i>	Indiana bat	LE
<i>Corynorhinus townsendii ingens</i>	Ozark big-eared bat	LE
<i>Canis rufus</i>	Red wolf	LE-EX
<u>Mussels</u>		
<i>Lampsilis rafinesqueana</i>	Neosho mucket mussel	PE
<i>Arkansia wheeleri</i>	Ouachita rock-pocketbook mussel	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot mussel	PT
<i>Leptodea leptodon</i>	Scaleshell mussel	LE
<i>Quadrula fragosa</i>	Winged mapleleaf mussel	LE
<u>Reptiles</u>		
<i>Alligator Mississippiensis</i>	American alligator	LT-SA

Plants

<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT-EX
<i>Platanthera praeclara</i>	Western prairie fringed orchid	LT-EX
<i>Ptilimnium nodosum</i>	Harperella	LE

Key

LE	Listed endangered
LT	Listed threatened
PE	Proposed Endangered
PT	Proposed threatened
EX	Believed to be extirpated in Oklahoma
SA	Endangered due to similarity of appearance to other listed species.
C	Candidate (The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities).

Last Updated: February 4, 2013

Prepared by U.S. Fish and Wildlife Service, Oklahoma Ecological Services Office

County by County List of Endangered and Threatened Species

Adair County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered

Long-nosed Darter (*Percina nasuta*) – endangered

Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed threatened and endangered in this county may include:

Gray Bat (*Myotis grisescens*) - endangered

Indiana Bat (*Myotis sodalis*) - endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Alfalfa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Whooping Crane (*Grus americana*) - endangered

Atoka County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Beaver County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Whooping Crane (*Grus americana*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Beckham County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Blaine County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Bryan County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Caddo County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Canadian County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Carter County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cherokee County**State-listed Threatened and Endangered Species:**

- Neosho Mucket (*Lampsilis rafinesqueana*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Choctaw County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Scaleshell (*Leptodea leptodon*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cimarron County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Cleveland County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Coal County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered

Comanche County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Black-capped Vireo (*Vireo atricapillus*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Cotton County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Craig County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
 Neosho Madtom (*Noturus placidus*) – threatened
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Creek County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Custer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Delaware County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Oklahoma Cave Crayfish (*Cambarus tartarus*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Dewey County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Ellis County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Garfield County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Garvin County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Grady County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Grant County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Greer County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harmon County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harper County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Haskell County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Hughes County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Jackson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Jefferson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Johnston County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Kay County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Kingfisher County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Kiowa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Latimer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
Piping Plover (*Charadrius melodus*) - threatened

LeFlore County

State-listed Threatened and Endangered Species:

Black-sided Darter (*Percina maculata*) -threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
Indiana Bat (*Myotis sodalis*) - endangered
Interior Least Tern (*Sterna antillarum*) - endangered
Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
Scaleshell (*Leptodea leptodon*) - endangered
Piping Plover (*Charadrius melodus*) - threatened
Leopard Darter (*Percina pantherina*) - threatened

Lincoln County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
Piping Plover (*Charadrius melodus*) - threatened

Logan County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Love County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Major County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Marshall County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Mayes County**State-listed Threatened and Endangered Species:**

None

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) – endangered
- Piping Plover (*Charadrius melodus*) – threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

McClain County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

McCurtain County**State-listed Threatened and Endangered Species:**

- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Red-cockaded Woodpecker (*Picoides borealis*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Winged Mapleleaf (*Quadrula fragosa*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

McIntosh County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Murray County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Muskogee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Noble County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Nowata County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered; historic occurrence in Verdigris River

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Okfuskee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Oklahoma County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Okmulgee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Osage County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Ottawa County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*)

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Gray Bat (*Myotis grisescens*) – endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) – threatened

Neosho Madtom (*Noturus placidus*) – threatened

Ozark Cavefish (*Amblyopsis rosae*) - threatened

Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Pawnee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Payne County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pittsburg County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pontotoc County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pottawatomie County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened**Pushmataha County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangeredIndiana Bat (*Myotis sodalis*) - endangeredInterior Least Tern (*Sterna antillarum*) - endangeredRed-cockaded Woodpecker (*Picoides borealis*) - endangeredOuachita Rock Pocketbook (*Arkansia wheeleri*) – endangeredScaleshell (*Leptodea leptodon*) - endangeredWinged Mapleleaf (*Quadrula fragosa*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedLeopard Darter (*Percina pantherina*) - threatened**Roger Mills County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangeredInterior Least Tern (*Sterna antillarum*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedArkansas River Shiner (*Notropis girardi*) – threatenedLesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation**Rogers County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Seminole County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Sequoyah County

State-listed Threatened and Endangered Species:

- Long-nosed Darter (*Percina nasuta*) - endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Stephens County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Texas County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Tillman County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Tulsa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Wagoner County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Washington County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Piping Plover (*Charadrius melodus*) - threatened

Washita County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Woods County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Woodward County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Table 4-1-B
Zone 2
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25	(b) (7)		43						
CRCT-Plainville Station	Skimmer	1	(b) (7)								
CRCT-Winfield Office	Vacuum Truck	1	(b) (7)	300							
CRCT-Winfield Office	Transport with pump	25	(b) (7)		28						
CRCT-Winfield Office	Skimmer	1	(b) (7)								
CRCT-Bartlesville Station	Vacuum Truck	4	(b) (7)	300							
CRCT-Bartlesville Station	Transport with pump	25	(b) (7)		50						
CRCT-Bartlesville Station	Skimmer	1	(b) (7)								
CRCT (all stations)	Skimmer	1	(b) (7)		71.5						
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Hertel - Hays, KS	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
Hertel - Hays, KS	Skimmer	1	(b) (7)		25						
ACME - Tulsa, OK	Skimmer	4	(b) (7)		80						
Veolia - Kansas City, MO	Vacuum Truck	6	(b) (7)	300							
Veolia - Kansas City, MO	Skimmer	1	(b) (7)		80						
A Clean Environment - Tulsa, OK	Skimmer	6	(b) (7)		245						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

^a EDRC Effective Daily Recovery Capacity.
 CRCT Coffeyville Resources Crude Transportation, LLC.
 CRT Coffeyville Resources Terminal, LLC.
 bpd barrels per day.
 bph barrels per hour.
^b Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
 Hertel Hertel Tank Service, Inc., Hays, KS.
 ACME ACME Environmental Spill Response Resources, Tulsa, OK.
 Veolia Veolia Environmental Services, Kansas City, MO.
 A Clean Environment, Tulsa, OK.
^c Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
^d Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
^e Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
^f Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
^g Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Full quantity identified available for Tier 3 Response.
^h Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 $R = D \times U$, where
 R—Effective daily recovery capacity;
 D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808–83; Item 13.2.16 in F 631–99; or actual performance data); and
 U—Hours per day that equipment can operate under discharge conditions.
 CRT can sustain recovery operations for 12 hours per day.

ⁱ Summation of skimmer rate (bpd) based on $R = D \times U$.
^j Summation of vacuum truck rate (bpd) based on $R = D \times U$.
^k Summation of transport rate based on $R = D \times U$. Assumes 6 hrs for travel, load, and unload.
^l Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP:			
CRCT Contracted and Identified EDRC above CAP:			
EDRC Required Per 40CFR 112.20 Appendix E (i):			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E			
EDRC Requirement Evaluation:	MET	MET	MET

Zone 2 Worksheet
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
		40
Percent Lost to Natural Dissipation (D1)		15
Percent Recovered Floating Oil (D2)		45
Percent Oil Onshore (D3)		(b) (7)(F), (b) (3)
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol
	 2* 3 0		

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1588
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

WPS-CF-002 - Crude Oil

Revision Date January 2007

OSHA Regulatory Status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potential Health Effects	
Principle Routes of Exposure	Inhalation, Eye contact, Skin contact, Ingestion.
Acute Toxicity	
Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	May cause irritation. Repeated exposure may cause skin dryness or cracking.
Inhalation	Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Effects	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Aggravated Medical Conditions	Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.
Interactions with Other Chemicals	Use of alcoholic beverages may enhance toxic effects.
Environmental Hazard	See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES

General Advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
Eye Contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil, 3, UN1267, PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL, 3, UN1267, PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto, 3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

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16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

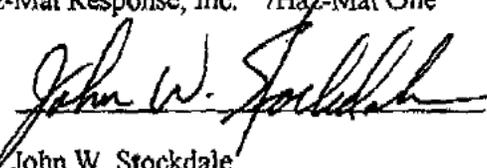
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-905-0290

Fax #: 913-782-6206

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:
 - A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and
 - B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.
3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

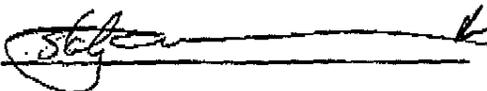
or at such other address as either shall have designated by notice to the other party.

22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

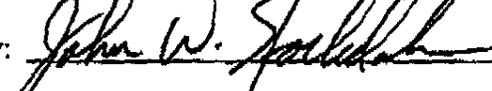
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

Address: 1203 S. Parker

Olathe, Kansas 66061

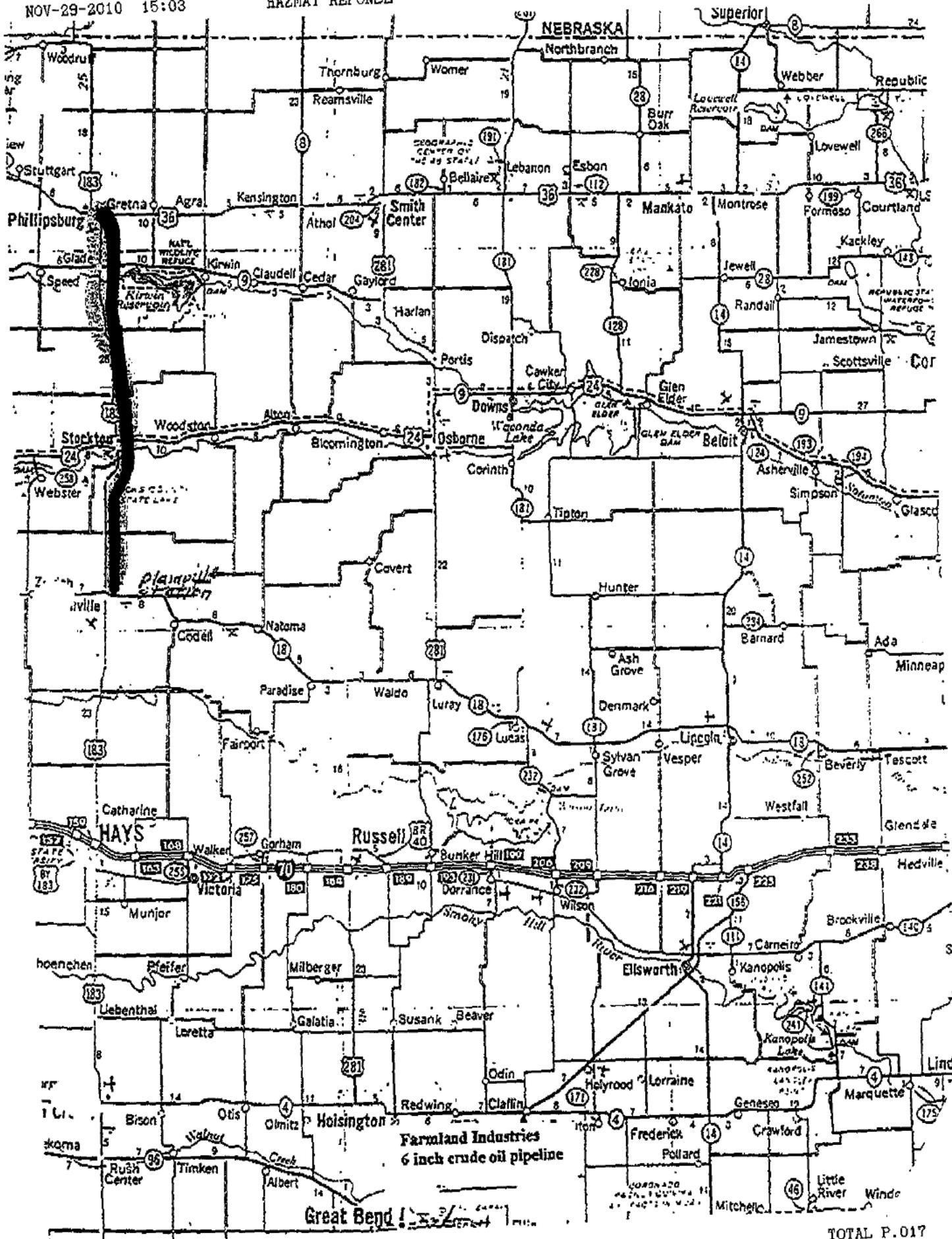
Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A

NOV-29-2010 15:03

HAZMAT REPOSENSE



Response Zone # 3 Appendix

Response Zone # 3 Description

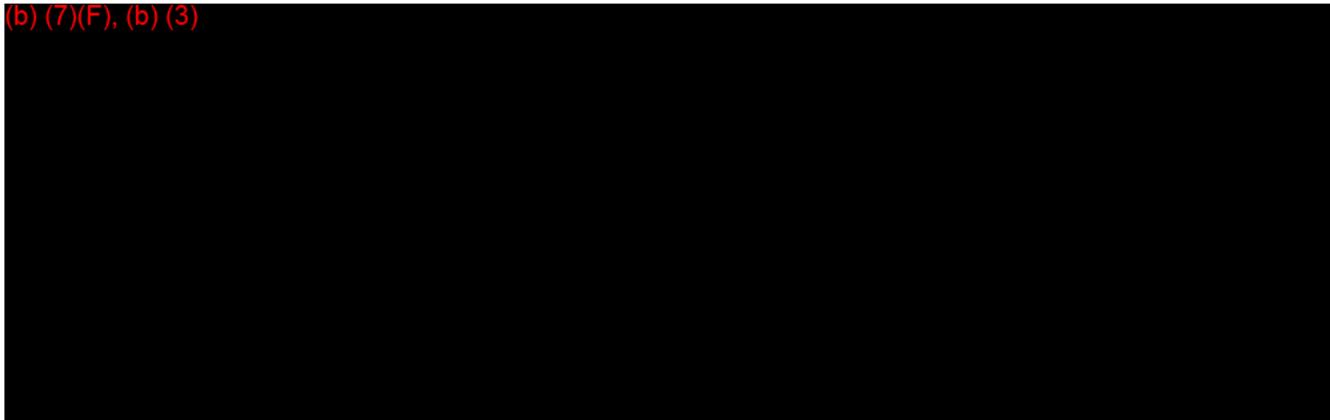
The Bartlesville Station to Broome Station 8-inch pipeline section, identified as the "Bartlesville Eight Inch", consists of one 8-inch pipeline section that parallels and crosses the Copan State Wildlife Management Area and peripheral portions of Copan Lake. In the event of a release, crude oil could enter this area.

(b) (7)(F), (b) (3)



This is the only section of pipeline which would affect this area of the response zone.

(b) (7)(F), (b) (3)

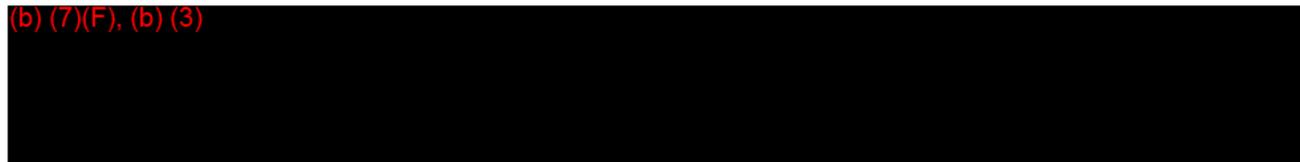


The location of the pipeline sections which could affect this area of the response zone would be as follows:

(b) (7)(F), (b) (3)



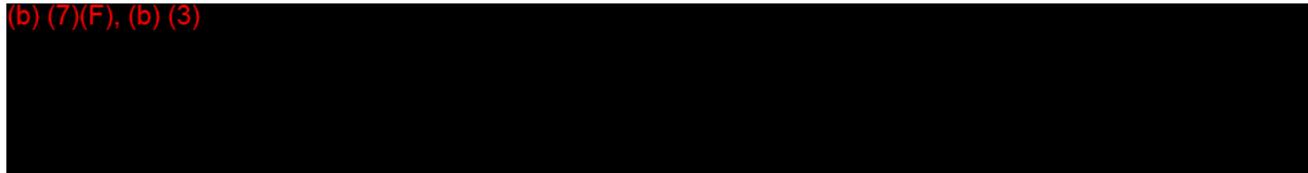
(b) (7)(F), (b) (3)



These two line sections would be the only ones affecting this area of the response zone.

Response Zone # 3 Location

(b) (7)(F), (b) (3)



The location of the southern area of this response zone would be the (b) (7)(F), (b) (3) starting at

(b) (7)(F), (b) (3)

Basis for Determination of Significant and Substantial Harm

These pipeline segments are currently out-of-service. However, should operations resume and a release occur, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreation area, and a state wildlife management area.

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman (Ext. 5014)	(918) 333-4111		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill	(918) 333-4111		

EHS Supervisor (Ext. 5005)
 Sheila Leach (918) 333-4111
 EHS Technician (Ext. 5025)

(b) (6)

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

Corp of Engineers

Any discharge of crude oil that would affect the Copan Lake area must be reported to the Corp of Engineers at: (918) 669-7325.

State of Oklahoma

Crude oil discharges in the state of Oklahoma may have to be reported to two different State agencies.

All crude oil discharges to navigable water and discharges in excess of 5 gallons to land must be reported to the Oklahoma Corporation Commission. If the crude oil discharge occurs in Washington County, contact the Bristow office at: (918) 367-3396.

The local Oklahoma Corporation Commission field representative may be called instead of calling Bristow. The two field representatives are Mike Brown telephone number: (918) 807-0997 and Jim Waite telephone number: (918) 697-3056.

Crude oil discharges of 5 gallons or more on land or any amount on a waterway, must be reported to the Oklahoma Department of Environmental Quality at: (800) 522-0206.

Persons reporting a discharge to either State agency should have the following information available:

- Name of pipeline
- Type of oil discharge
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

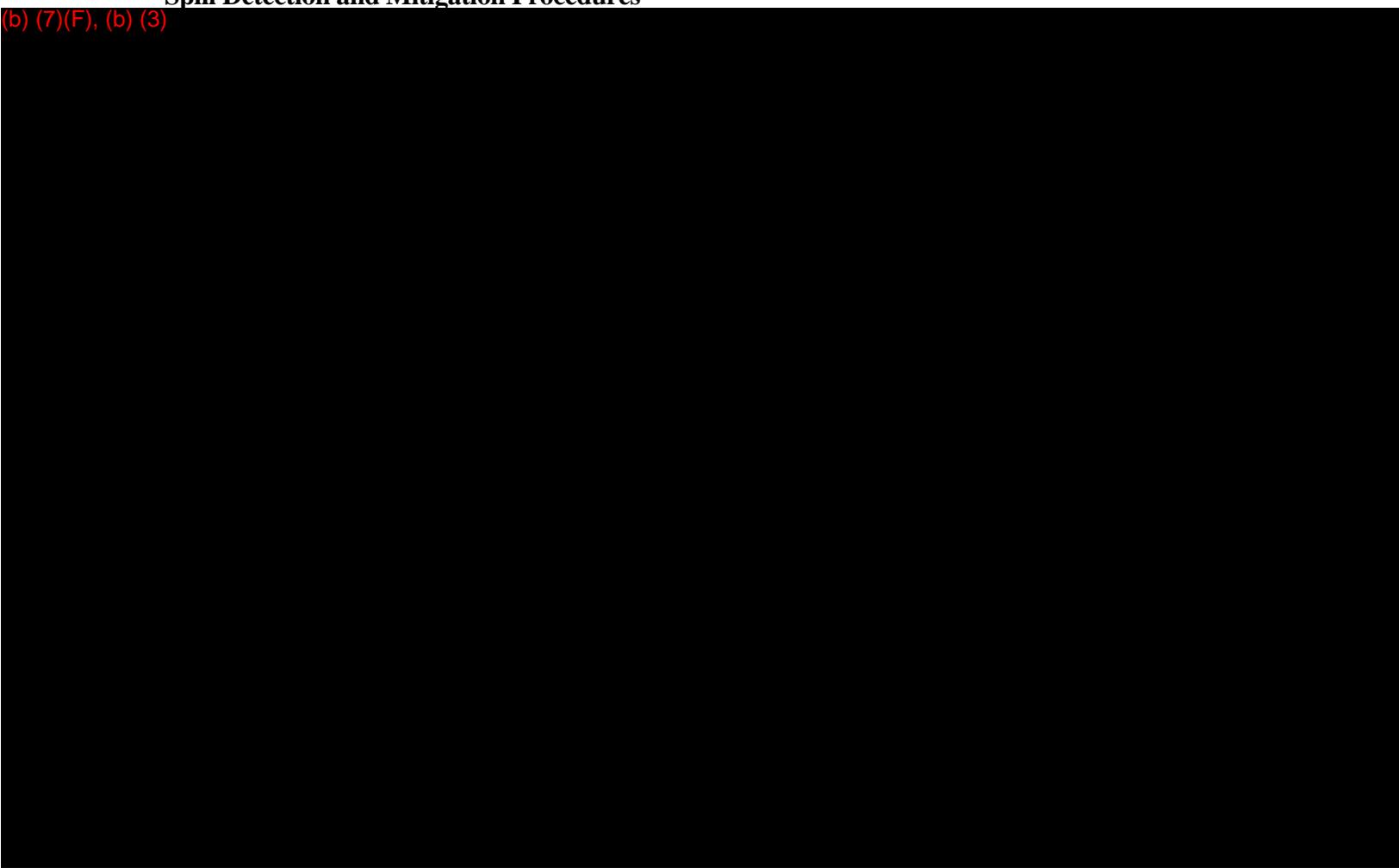
Additional Oklahoma telephone numbers that should be called in a serious situation, if their areas are affected are as follows:

<u>Agency</u>	<u>Telephone Number</u>
Washington County Sheriff	(918) 337-2800
Highway Patrol (Vinita)	(918) 256-3388
Local Emergency Planning Committee (Washington County)	(918) 336-2710
Osage Indian Agency	(918) 287-1351
Oklahoma One Call	(800) 522-6543

Copan Water Dept.	(918) 532-4114
Washington Co. Fire, Police, Ambulance	911

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)



Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area. The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as boom and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay

- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable

- of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 3, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 3 Tab. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Oklahoma

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VI	(866) 372-7745
Oklahoma Corporation Commission (Bristow Office) (Area Representative)	(918) 367-3396 (918) 807-0997 or (918) 697-3056
Oklahoma Dept. of Env. Quality	(800) 522-0206
Corp of Engineers	(918) 669-7325
Washington County Sheriff	(918) 337-2800

Highway Patrol (Vinita)	(918) 256-3388
Local Emergency Planning Committee (Washington County)	(918) 336-2710
Osage Indian Agency	(918) 287-5555
Oklahoma One Call	(800) 522-6543
Copan Water Dept.	(918) 532-4114
Washington Co. Fire, Police, Ambulance	911

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at an approximately gravity range of 35.0 to 40.0.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released when this segment is in service based on the line fill calculation of the pipeline in this zone.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

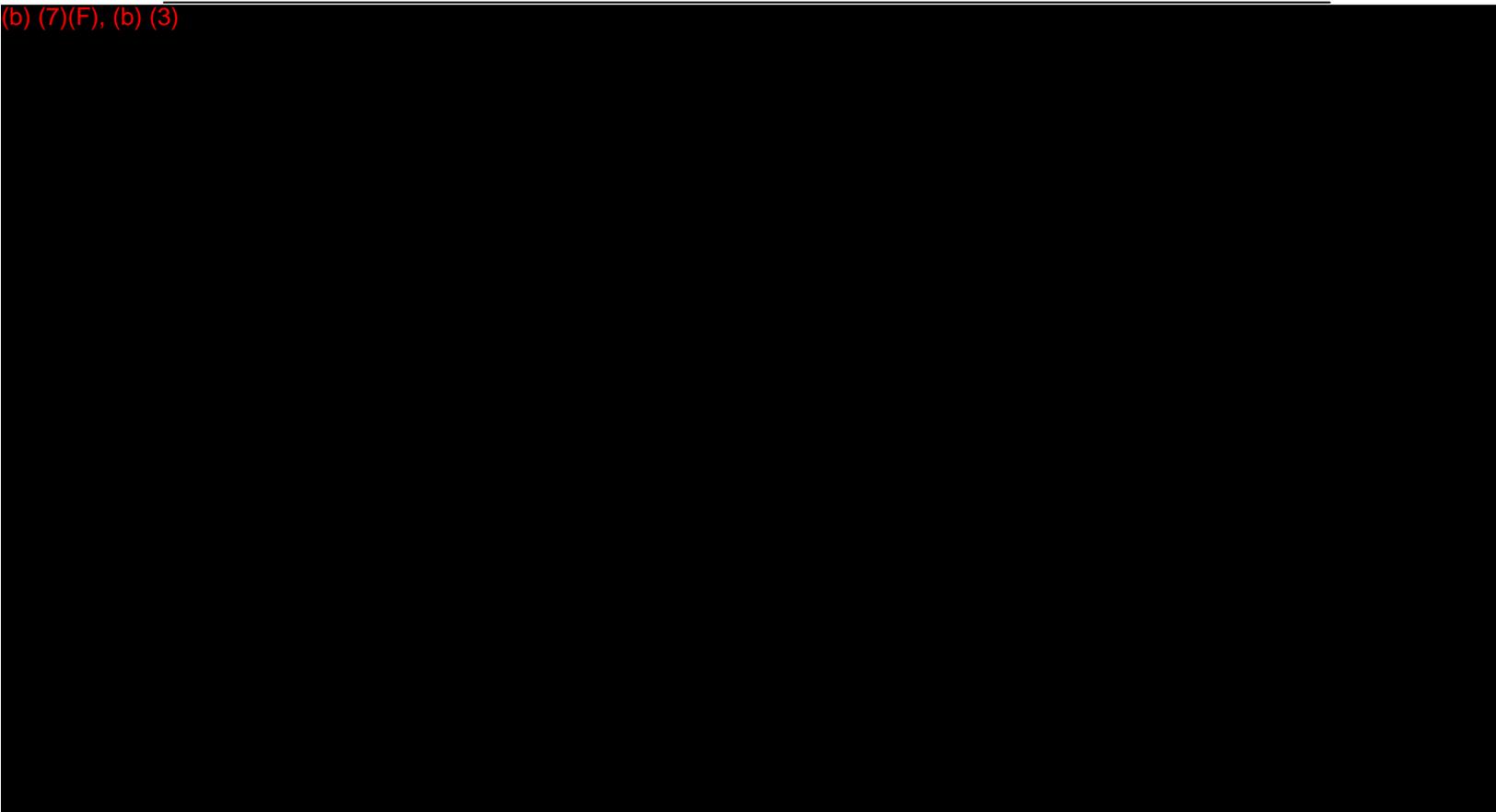
The maximum allowable credit is 75 %.

These pipeline segments are currently out-of-service. (b) (3), (b) (7)(F)

(b) (3), (b) (7)(F)

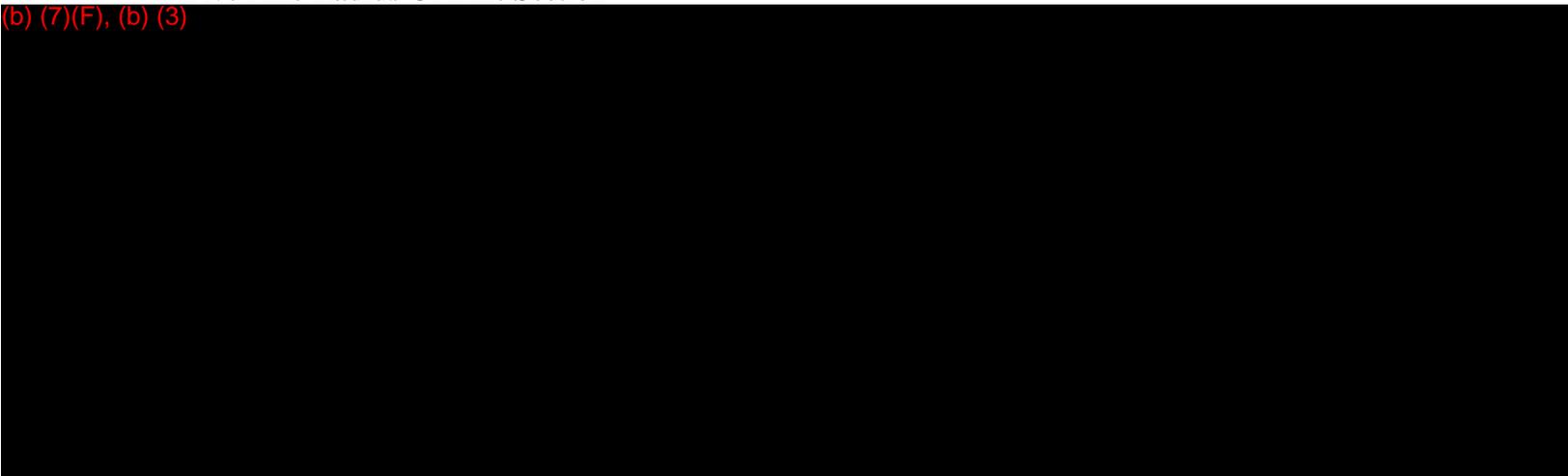
The Bartlesville Station to Broome Station system is checked, by long and short reports each morning at approximately 8:00 am. If a release occurred after 8:00 am, there would be a maximum of 24 hours before the release was discovered. Worst case discharge estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)



Potentially Affected Public Drinking Water Intakes, Lakes, Rivers, and Streams Within A Five Mile Radius Of Line Section

(b) (7)(F), (b) (3)



Environmentally Sensitive Area Within a One Mile Radius of The Line Section.

Copan Lake, which is a source of public drinking water and a state recreation area, would be considered an environmentally sensitive area.

Copan State Wildlife Management Area would be considered an environmentally sensitive area.

As the Caney River is a recreation area, it would be considered an environmentally sensitive area.

Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 3 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 3 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

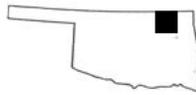
Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.

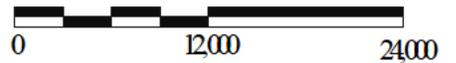
Reference

TopoZone.com Maps a la carte Inc.
Custom Map Created 10/26/05

-  - Water Intake
-  - Response Location



Quadrangle Location



Approximate
Scale in feet



Coffeyville Resources Crude Transportation, LLC
P.O. Box 3516
411 NE Washington Boulevard
Bartlesville, Oklahoma 74006
918-333-4111

Zone 3
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River		1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R		Potential Lake Access			
	OK	Washington	Caney River	Crosstimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R		Shoreline Access			
	OK	Washington	Caney River	Crosstimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R		275	Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominny Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominny Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita KedneysheIl Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita KedneysheIl Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita KedneysheIl Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
Western Fanshell Mussel	E	N	2, 4, 7, 9	

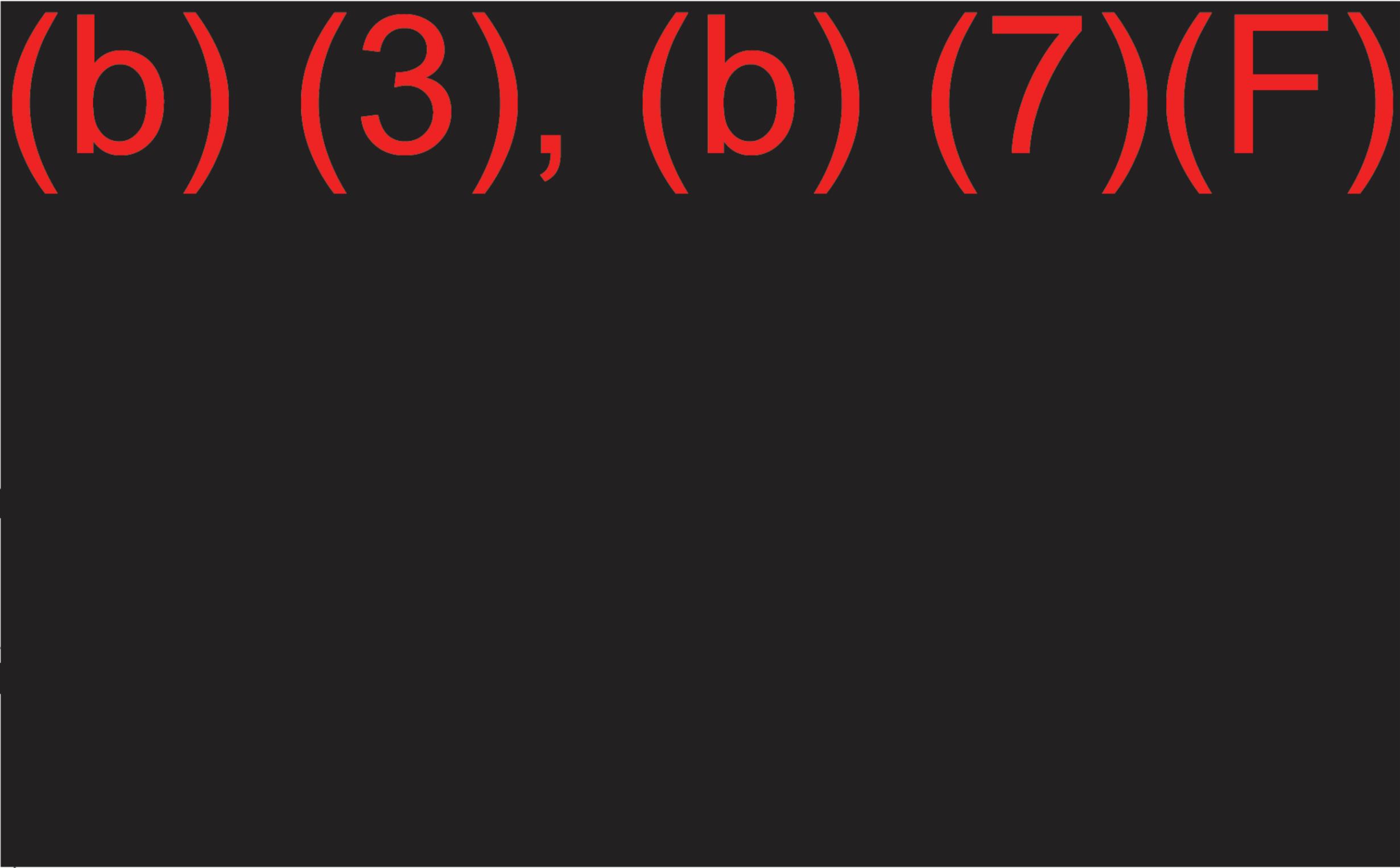
Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
Neosho	American Burying Beetle	E	E	N/A				
	Bald Eagle	T	T	7				
	Butterfly Mussel	T	N	7				
	Common Map Turtle	T	N	N/A				
	Eastern Spotted Skunk	T	N	N/A				
	Eskimo Curlew	E	E	N/A				
	Flat Floater Mussel	E	N	N/A				
	Flutedshell Mussel	T	N	7				
	Least Tern	E	E	N/A				
	Neosho Madtom	T	T	7				
	Neosho Mucket Mussel	E	N	7				
	Ouachita Kedneyshell Mussel	T	N	7				
	Peregrine Falcon	E	N	N/A				
	Piping Plover	T	T	N/A				
	Rabbitsfoot Mussel	E	N	7				
	Redspot Chub	T	N	N/A				
	Snowy Plover	T	N	N/A				
	Western Fanshell Mussel	E	N	N/A				
	Wilson	American Burying Beetle	E	E	7			
		Bald Eagle	T	T	N/A			
Butterfly Mussel		T	N	N/A				
Common Map Turtle		T	N	N/A				
Eastern Spotted Skunk		T	N	7				
Eskimo Curlew		E	E	N/A				
Flutedshell Mussel		T	N	N/A				
Least Tern		E	E	N/A				
Neosho Mucket Mussel		E	N	N/A				
Ouachita Kedneyshell Mussel		T	N	N/A				
Peregrine Falcon		E	N	N/A				
Piping Plover		T	T	N/A				
Rabbitsfoot Mussel		E	N	N/A				
Snowy Plover		T	N	N/A				
Western Fanshell Mussel		E	N	N/A				
<u>County in Oklahoma</u>		Nowata	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>		
	Bald Eagle						AD, T	N/A
	Neosho Mucket Mussel						E	4
	Peregrine Falcon						DM	N/A
	Piping Plover	E, T	4					
	Osage	Bald Eagle		AD, T	N/A			
		Least Tern		E	N/A			
		Neosho Mucket Mussel		E	8			
		Peregrine Falcon		DM	N/A			
		Piping Plover		E	8			
	Whooping Crane		E, EXPN	8				
	Washington	Bald Eagle		AD, T	N/A			
		Neosho Mucket Mussel		E	9			
		Peregrine Falcon		DM	N/A			
		Piping Plover		T	9			
	Whooping Crane		E, EXPN	N/A				

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

COPAN LAKE

PUBLIC HUNTING AREA



PUBLIC USE AREAS

- 1 Washington Cove
- 2 Copan Point
- 3 Anglers Point
- 4 Post Oak Park
- 5 Osage Plains

LEGEND

-  Paved Road
-  Improved Road
-  Dirt Road
-  Project Boundary
-  Corps Areas Open For Hunting
-  State Areas Open For Hunting
-  See Restrictions

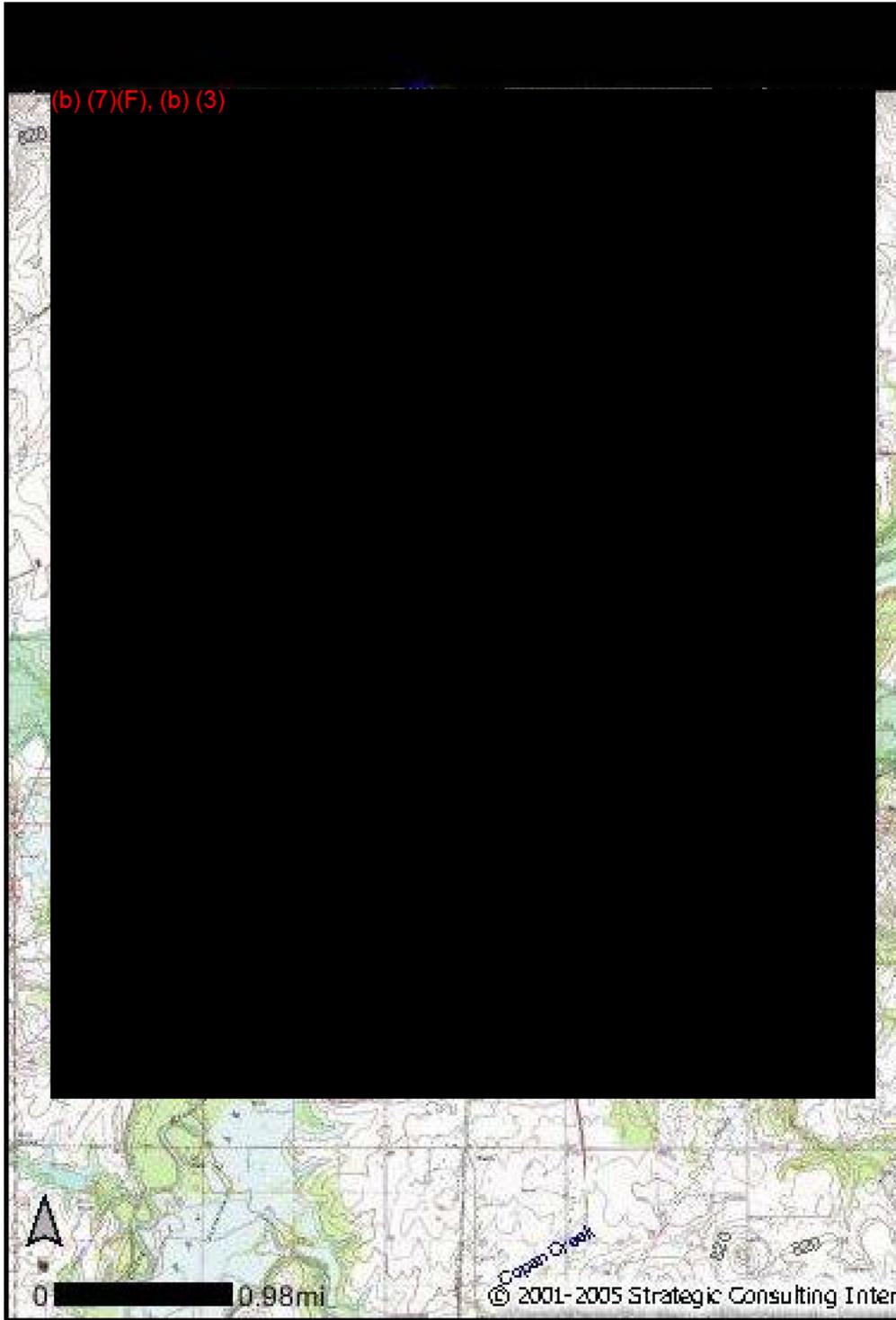
RESERVOIR DATA
 Top of conservation pool El. 710.0
 30 shoreline miles at El. 710.0
 Total project land & water acreage 15932



**US Army Corps
of Engineers**
Tulsa District

Zone 3: Copan WMA

10/26/2005



Johnstone Park

Location: 200 North Cherokee

The third part of Johnstone Park, located across the Caney River bridge on the north side, consists of a small, six space RV park with electrical hookups, barbecue grills, and a boat ramp to the Caney River. There is a popular fishing spot at the dam on the Caney River located beneath the bridge on Highway 123 leading north from the city's center. Connected to this site is an Audubon bird sanctuary with short nature trails.

All portions of this park were purchased by the city except the historical site of the Bartles Mill which was donated by the Bitini family in 1965.



Federally Endangered, Threatened, Proposed, and Candidate Species in Oklahoma

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>Birds</u>		
<i>Vermivora bachmanii</i>	Bachman's warbler	LE-EX
<i>Vireo atricapilla</i>	Black-capped vireo	LE
<i>Numenius borealis</i>	Eskimo curlew	LE-EX
<i>Sterna antillarum</i>	Interior least tern	LE
<i>Campephilus principalis</i>	Ivory-billed woodpecker	LE-EX
<i>Tympanuchus pallidicinctus</i>	Lesser prairie chicken	PT
<i>Charadrius melodus</i>	Piping plover	LT
<i>Anthus spragueii</i>	Sprague's pipit	C
<i>Picoides borealis</i>	Red-cockaded woodpecker	LE
<i>Grus americana</i>	Whooping crane	LE
<u>Fishes</u>		
<i>Etheostoma cragini</i>	Arkansas darter	C
<i>Notropis girardi</i>	Arkansas River shiner	LT
<i>Percina pantherina</i>	Leopard darter	LT
<i>Noturus placidus</i>	Neosho madtom	LT
<i>Amblyopsis rosae</i>	Ozark cavefish	LT
<u>Insects</u>		
<i>Nicrophorus americanus</i>	American burying beetle	LE
<u>Mammals</u>		
<i>Mustela nigripes</i>	Black-footed ferret	LE-EX
<i>Myotis grisescens</i>	Gray bat	LE
<i>Canis lupus</i>	Gray wolf	LE-EX
<i>Ursus arctos horribilis</i>	Grizzly bear	LT-EX
<i>Myotis sodalis</i>	Indiana bat	LE
<i>Corynorhinus townsendii ingens</i>	Ozark big-eared bat	LE
<i>Canis rufus</i>	Red wolf	LE-EX
<u>Mussels</u>		
<i>Lampsilis rafinesqueana</i>	Neosho mucket mussel	PE
<i>Arkansia wheeleri</i>	Ouachita rock-pocketbook mussel	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot mussel	PT
<i>Leptodea leptodon</i>	Scaleshell mussel	LE
<i>Quadrula fragosa</i>	Winged mapleleaf mussel	LE
<u>Reptiles</u>		
<i>Alligator Mississippiensis</i>	American alligator	LT-SA

Plants

<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT-EX
<i>Platanthera praeclara</i>	Western prairie fringed orchid	LT-EX
<i>Ptilimnium nodosum</i>	Harperella	LE

Key

LE	Listed endangered
LT	Listed threatened
PE	Proposed Endangered
PT	Proposed threatened
EX	Believed to be extirpated in Oklahoma
SA	Endangered due to similarity of appearance to other listed species.
C	Candidate (The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities).

Last Updated: February 4, 2013

Prepared by U.S. Fish and Wildlife Service, Oklahoma Ecological Services Office

County by County List of Endangered and Threatened Species

Adair County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Long-nosed Darter (*Percina nasuta*) – endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed threatened and endangered in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Alfalfa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Whooping Crane (*Grus americana*) - endangered

Atoka County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Beaver County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Whooping Crane (*Grus americana*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Beckham County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Blaine County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Bryan County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Caddo County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Canadian County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Carter County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cherokee County**State-listed Threatened and Endangered Species:**

- Neosho Mucket (*Lampsilis rafinesqueana*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Choctaw County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Scaleshell (*Leptodea leptodon*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cimarron County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Cleveland County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Coal County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered

Comanche County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Black-capped Vireo (*Vireo atricapillus*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Cotton County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Craig County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
 Neosho Madtom (*Noturus placidus*) – threatened
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Creek County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Custer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Delaware County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Oklahoma Cave Crayfish (*Cambarus tartarus*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Dewey County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Ellis County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Garfield County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Garvin County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Grady County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Grant County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Greer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harmon County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harper County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Haskell County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Hughes County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Jackson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Jefferson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Johnston County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Kay County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Kingfisher County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Kiowa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Latimer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

LeFlore County

State-listed Threatened and Endangered Species:

- Black-sided Darter (*Percina maculata*) -threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

Lincoln County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Logan County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Love County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Major County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Marshall County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Mayes County**State-listed Threatened and Endangered Species:**

None

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) – endangered
- Piping Plover (*Charadrius melodus*) – threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

McClain County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

McCurtain County**State-listed Threatened and Endangered Species:**

Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Red-cockaded Woodpecker (*Picoides borealis*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Winged Mapleleaf (*Quadrula fragosa*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

McIntosh County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Murray County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Muskogee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Noble County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Nowata County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered; historic occurrence in Verdigris River

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Okfuskee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Oklahoma County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Okmulgee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Osage County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Ottawa County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*)

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Gray Bat (*Myotis grisescens*) – endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) – threatened

Neosho Madtom (*Noturus placidus*) – threatened

Ozark Cavefish (*Amblyopsis rosae*) - threatened

Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Pawnee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Payne County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pittsburg County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pontotoc County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pottawatomie County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened**Pushmataha County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangeredIndiana Bat (*Myotis sodalis*) - endangeredInterior Least Tern (*Sterna antillarum*) - endangeredRed-cockaded Woodpecker (*Picoides borealis*) - endangeredOuachita Rock Pocketbook (*Arkansia wheeleri*) – endangeredScaleshell (*Leptodea leptodon*) - endangeredWinged Mapleleaf (*Quadrula fragosa*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedLeopard Darter (*Percina pantherina*) - threatened**Roger Mills County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangeredInterior Least Tern (*Sterna antillarum*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedArkansas River Shiner (*Notropis girardi*) – threatenedLesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation**Rogers County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Seminole County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Sequoyah County

State-listed Threatened and Endangered Species:

- Long-nosed Darter (*Percina nasuta*) - endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Stephens County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Texas County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Tillman County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Tulsa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Wagoner County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Washington County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Piping Plover (*Charadrius melodus*) - threatened

Washita County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Woods County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Woodward County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Table 4-1-B
Zone 3
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25	(7)		43						
CRCT-Plainville Station	Skimmer	1	(F)								
CRCT-Winfield Office	Vacuum Truck	1	(F)	300							
CRCT-Winfield Office	Transport with pump	25	(F)								
CRCT-Winfield Office	Skimmer	1	(b) (3)		28						
CRCT-Bartlesville Station	Vacuum Truck	4	(b) (3)	300							
CRCT-Bartlesville Station	Transport with pump	25	(b) (3)								
CRCT-Bartlesville Station	Skimmer	1	(b) (3)		50						
CRCT (all stations)	Skimmer	1	(b) (3)		71.5						
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Hertel - Hays, KS	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
Hertel - Hays, KS	Skimmer	1	(7)		25						
ACME - Tulsa, OK	Skimmer	4	(F)		80						
Veolia - Kansas City, MO	Vacuum Truck	6	(F)	300							
Veolia - Kansas City, MO	Skimmer	1	(b) (3)		80						
A Clean Environment - Tulsa, OK	Skimmer	6	(b) (3)		245						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- ^{a)} EDRC Effective Daily Recovery Capacity.
 CRCT Coffeyville Resources Crude Transportation, LLC.
 CRT Coffeyville Resources Terminal, LLC.
 bpd barrels per day.
 bph barrels per hour.
 hr. hour.
- ^{b)} Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
 Hertel Hertel Tank Service, Inc., Hays, KS.
 ACME ACME Environmental Spill Response Resources, Tulsa, OK.
 Veolia Veolia Environmental Services, Kansas City, MO.
 A Clean Environment, Tulsa, OK.
- ^{c)} Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
- ^{d)} Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
- ^{e)} Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- ^{f)} Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- ^{g)} Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Full quantity identified available for Tier 3 Response.
- ^{h)} Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
- $R = D \times U$, where
 R—Effective daily recovery capacity;
 D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 U—Hours per day that equipment can operate under discharge conditions.
 CRT can sustain recovery operations for 12 hours per day.
- ⁱ⁾ Summation of skimmer rate (bpd) based on $R = D \times U$.
- ^{j)} Summation of vacuum truck rate (bpd) based on $R = D \times U$.
- ^{k)} Summation of transport rate based on $R = D \times U$. Assumes 6 hrs for travel, load, and unload.
- ^{l)} Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC:	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E:			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP:			
CRCT Contracted and Identified EDRC above CAP:			
EDRC Required Per 40CFR 112.20 Appendix E (i):			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E:			
EDRC Requirement Evaluation:	MET	MET	MET

Zone 3 Worksheet
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (I1)	Tier 2 (I2)	Tier 3 (I3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:

Coffeyville Resources Refining

PO Box 1566

Coffeyville, KS. 67337

MSDS Assistance: 1-620-251-4000

Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

WPS-CF-002 - Crude Oil

Revision Date January 2007

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil,3,UN1267,PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL,3,UN1267,PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto,3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

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16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

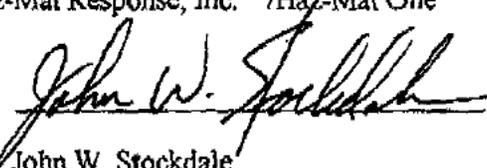
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-905-0290

Fax #: 913-782-6206

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:
 - A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and
 - B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas; and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas; and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.
3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

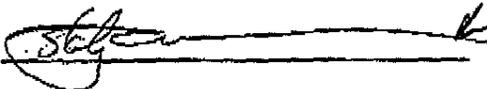
or at such other address as either shall have designated by notice to the other party.

22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

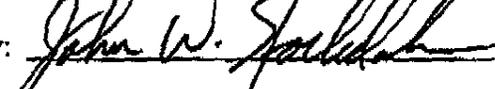
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

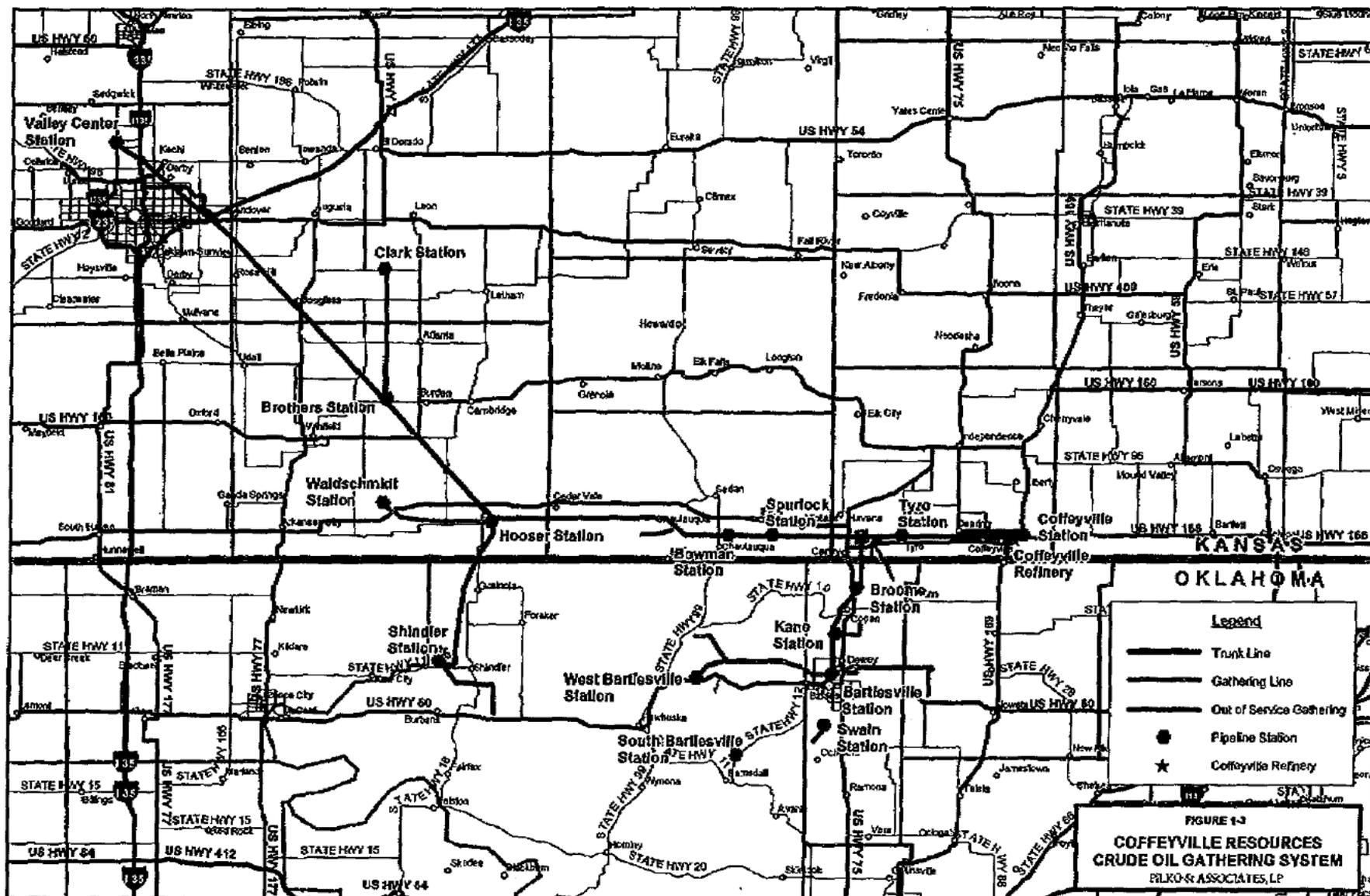
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A



106675.00

17

Legend

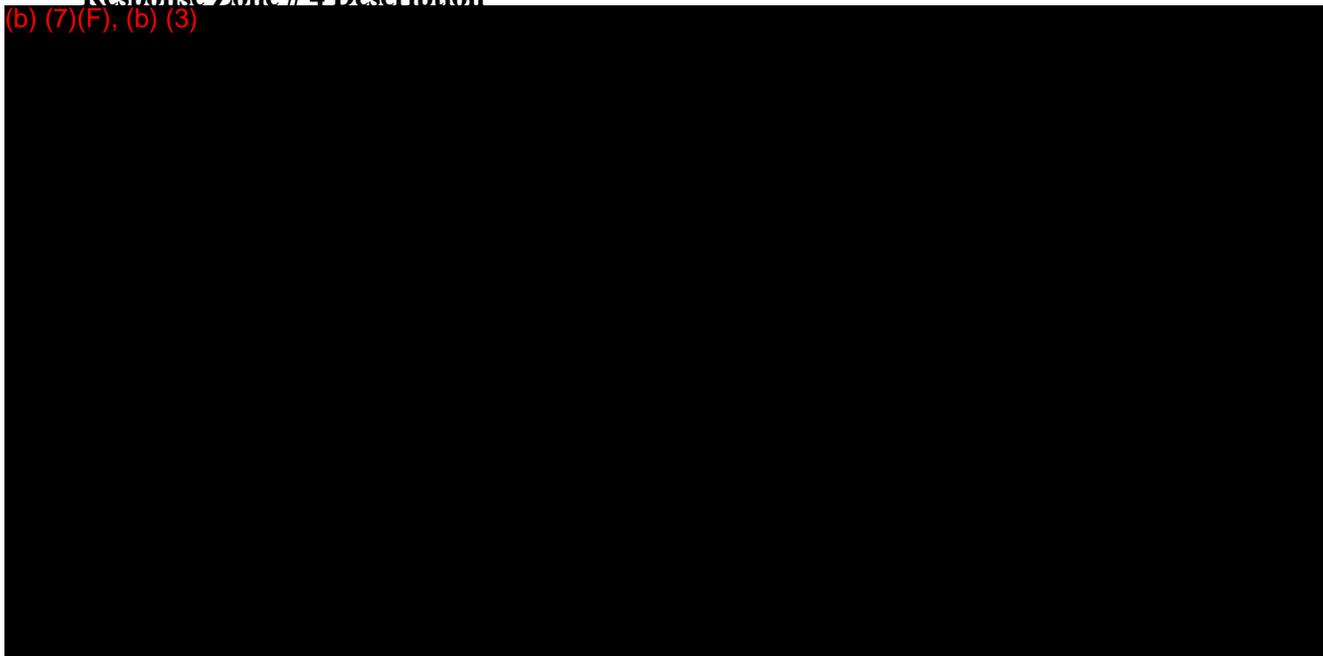
- Trunk Line
- Gathering Line
- Out of Service Gathering
- Pipeline Station
- Coffeyville Refinery

FIGURE 1-1
COFFEYVILLE RESOURCES
CRUDE OIL GATHERING SYSTEM
 BILKO & ASSOCIATES, LP

Response Zone # 4 Appendix

Response Zone # 4 Description

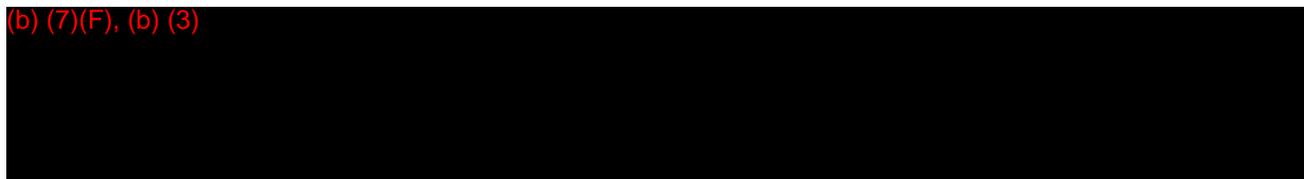
(b) (7)(F), (b) (3)



These three pipeline sections are the only ones which would affect this response zone.

Response Zone # 4 Location

(b) (7)(F), (b) (3)



Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreation area, and a state wildlife management area.

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified

Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman	(918) 333-4111 (Ext. 5014)		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body or water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not

meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

State of Oklahoma

Crude oil discharges in the state of Oklahoma may have to be reported to two different State agencies.

All crude oil discharges to navigable water and discharges in excess of 5 gallons to land must be reported to the Oklahoma Corporation Commission. If the crude oil discharge occurs in Nowata County, contact the Bristow office at: (918) 367-3396.

The local Oklahoma Corporation Commission field representative may be called instead of calling Bristow. The field representatives are Mike Brown telephone number is: (918) 807-0997 and Jim Waite telephone number: (918) 697-3056.

Crude oil discharges of 5 gallons or more on land or any amount on a waterway, must be reported to the Oklahoma Department of Environmental Quality at: (800) 522-0206.

Persons reporting a discharge to either State agency should have the following information available:

- Name of pipeline
- Type of oil discharge
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss

- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Montgomery County, Kansas, contact the Chanute office at: (620) 431-2390.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is: (785) 296-1679. The regular call to the Chanute office should also be made the next business day.

Persons reporting a discharge to either State agency should have the following information available:

- Name of pipeline
- Type of oil discharge
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)

Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the

crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.

- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as boom and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.

- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 4, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 4 Tab. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if

necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Oklahoma

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VI	(866) 372-7745
Oklahoma Corporation Commission (Bristow Office) (Area Representative)	(918) 367-3396 (918) 807-0997 or (918) 697-3056
Oklahoma Dept. of Env. Quality	(800) 522-0206
Nowata County Sheriff	(918) 273-2287
Highway Patrol (Vinita)	(918) 256-3388
Local Emergency Planning Committee (Nowata County)	(918) 273-2345
Oklahoma One Call	(800) 522-6543
Nowata Water Dept.	(918) 273-3538
Nowata Co. Fire, Ambulance	(918) 273-3532

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Montgomery County) (Topeka 24-hr number)	(620) 431-2390 (785) 296-1679
Montgomery County Sheriff	(620) 331-1260

Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Montgomery Co. Fire, Police, Ambulance	911
Local Emergency Planning Committee (Montgomery County)	(620) 330-1260
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233
Montgomery Co. Fire, Police, Ambulance	911

Worst Case Discharge Volume

The type of oil transported through the 16-inch pipelines is sour crude oil, at an approximately gravity range of 30.0 to 34.0.

The type of oil transported through the 12-inch pipeline is sweet crude oil, at an approximately gravity range of 35.0 to 40.0.

In this zone, there is a 12-inch line and two 16-inch lines. These lines share common right-of-way in some areas. In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the volume of the largest breakout tank in the zone and applying a 50 percent prevention credit for the breakout tank within adequate secondary containment.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

(b) (3), (b) (7)(F)

(b) (3), (b) (7)(F)

[Redacted]

Worst case discharge

estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)

[Redacted]

Potentially Affected Public Drinking Water Intakes, Lakes, Rivers, and Streams Within A

(b) (7)(F), (b) (3)

[Redacted]

Environmentally Sensitive Area Within a One Mile Radius of The Line Section

Lower Verdigris River and Oologah Lake is a public use area for hunting and fishing and a state recreation area. This would be considered an environmentally sensitive area.



Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 4 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 4 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

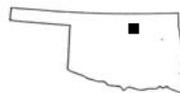
Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.

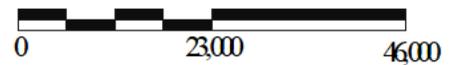
Reference

TopoZone.com Maps a la carte Inc.
Custom Map Created 10/26/05

-  - Water Intake
-  - Response Location



Quadrangle Location



Approximate
Scale in feet



Coffeyville Resources Crude Transportation, LLC
 P.O. Box 3516
 411 NE Washington Boulevard
 Bartlesville, Oklahoma 74006
 918-333-4111

Zone 4
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River		1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crossttimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crossttimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crossttimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R		Potential Lake Access			
	OK	Washington	Caney River	Crossttimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R		Shoreline Access			
	OK	Washington	Caney River	Crossttimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crossttimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R		Shoreline/Water Access			
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200	275	Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R			Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominny Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominny Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneyshell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>					
Neosho	American Burying Beetle	E	E	N/A					
	Bald Eagle	T	T	7					
	Butterfly Mussel	T	N	7					
	Common Map Turtle	T	N	N/A					
	Eastern Spotted Skunk	T	N	N/A					
	Eskimo Curlew	E	E	N/A					
	Flat Floater Mussel	E	N	N/A					
	Flutedshell Mussel	T	N	7					
	Least Tern	E	E	N/A					
	Neosho Madtom	T	T	7					
	Neosho Mucket Mussel	E	N	7					
	Ouachita Kedneyshell Mussel	T	N	7					
	Peregrine Falcon	E	N	N/A					
	Piping Plover	T	T	N/A					
	Rabbitsfoot Mussel	E	N	7					
	Redspot Chub	T	N	N/A					
	Snowy Plover	T	N	N/A					
	Western Fanshell Mussel	E	N	N/A					
	Wilson	American Burying Beetle	E	E	7				
		Bald Eagle	T	T	N/A				
Butterfly Mussel		T	N	N/A					
Common Map Turtle		T	N	N/A					
Eastern Spotted Skunk		T	N	7					
Eskimo Curlew		E	E	N/A					
Flutedshell Mussel		T	N	N/A					
Least Tern		E	E	N/A					
Neosho Mucket Mussel		E	N	N/A					
Ouachita Kedneyshell Mussel		T	N	N/A					
Peregrine Falcon		E	N	N/A					
Piping Plover		T	T	N/A					
Rabbitsfoot Mussel		E	N	N/A					
Snowy Plover		T	N	N/A					
Western Fanshell Mussel		E	N	N/A					
County in Oklahoma		<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
	Nowata					Bald Eagle	AD, T	N/A	
						Neosho Mucket Mussel	E	4	
						Peregrine Falcon	DM	N/A	
						Piping Plover	E, T	4	
	Osage					Bald Eagle		AD, T	N/A
						Least Tern		E	N/A
						Neosho Mucket Mussel		E	8
						Peregrine Falcon		DM	N/A
						Piping Plover		E	8
	Whooping Crane						E, EXPN	8	
	Washington					Bald Eagle		AD, T	N/A
						Neosho Mucket Mussel		E	9
						Peregrine Falcon		DM	N/A
						Piping Plover		T	9
	Whooping Crane						E, EXPN	N/A	

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

Oologah Lake

PUBLIC HUNTING AREA

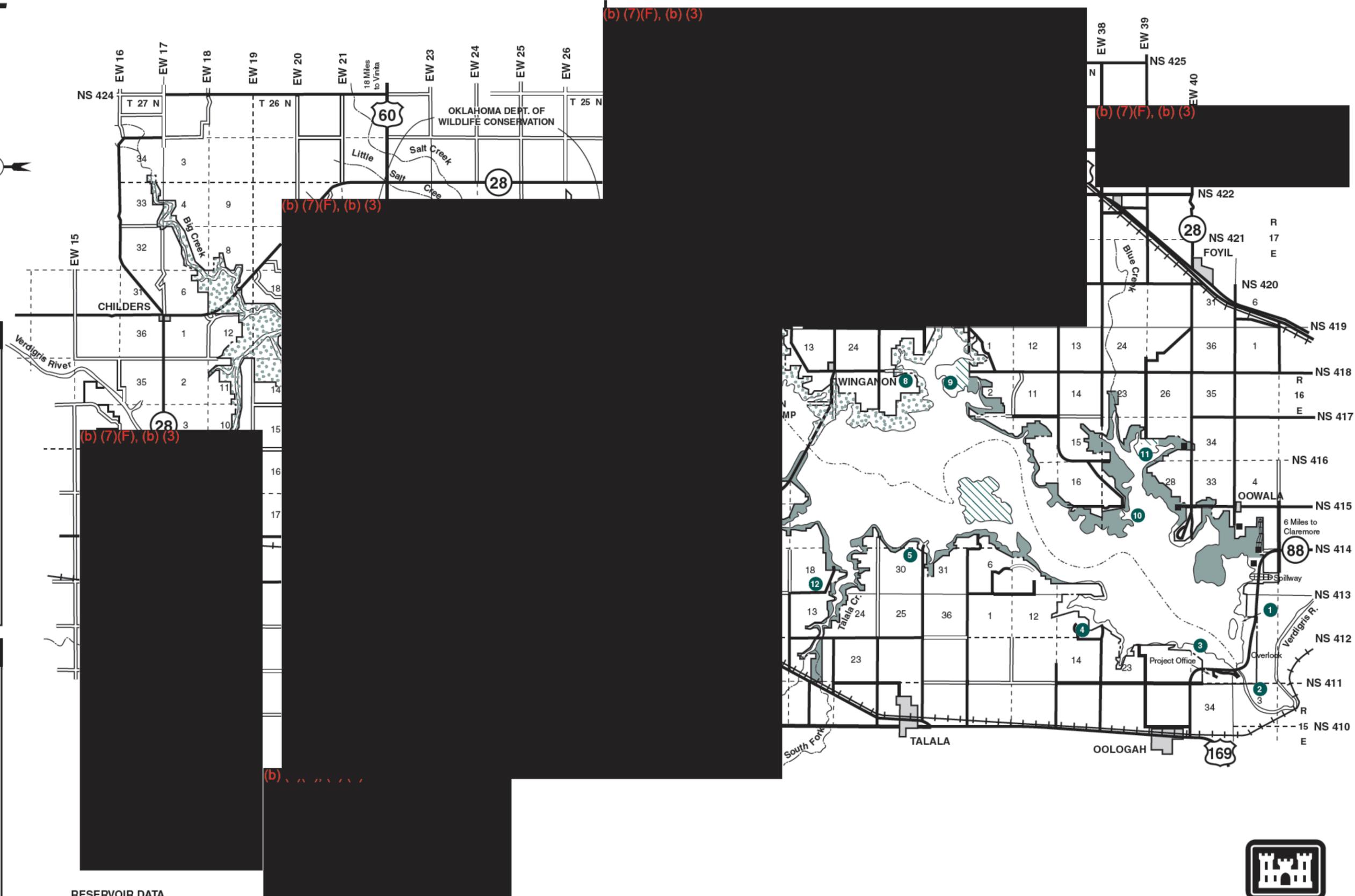
- ### PUBLIC USE AREAS
- 1 Redbud Bay
 - 2 Verdigris River Park
 - 3 Hawthorn Bluff
 - 4 Will Rogers Park
 - 5 Sunnyside Ramp
 - 6 Double Creek Cove
 - 7 Big Creek Ramp
 - 8 Winganon Ramp
 - 9 Spencer Creek Cove
 - 10 Clermont
 - 11 Blue Creek Park
 - 12 Vada Point Ramp

- ### LEGEND
- Paved Road
 - Improved Road
 - Project Boundary
 - Corps Areas Open For Hunting
 - State Areas Open For Hunting
 - See Restrictions



RESERVOIR DATA
 Top of conservation pool El. 638.0
 209 shoreline miles at El. 638.0
 Total project land & water acreage 50150

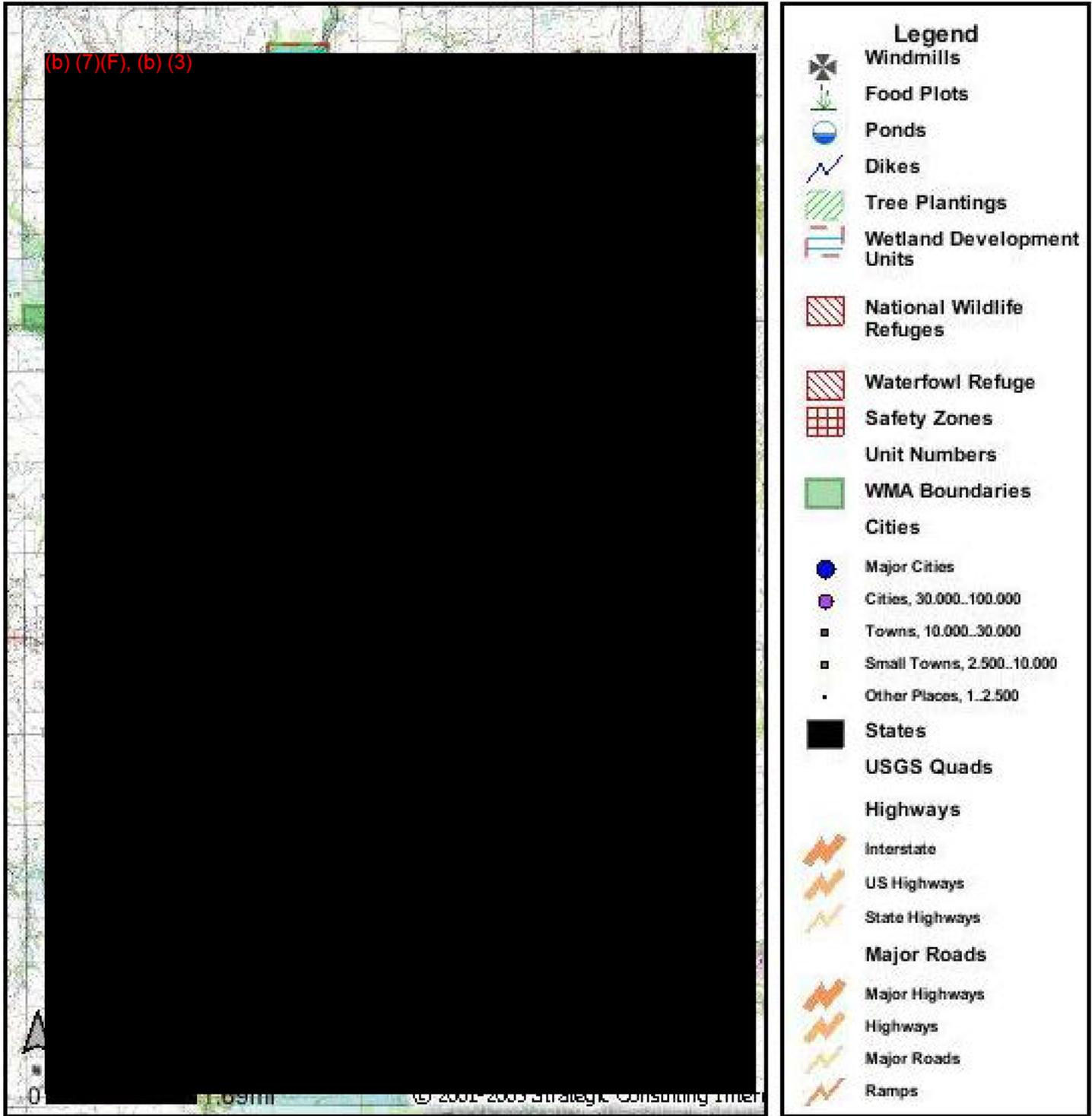
■ Hunters' Parking Area



US Army Corps of Engineers
 Tulsa District

Zone 4: Oologah WMA

10/26/2005





Species In Need of Conservation Known or Likely to Occur in Montgomery County, Kansas

Alligator Snapping Turtle - *Macrolemys temminckii* (Troost)

Black Tern - *Chlidonias niger* (Linnaeus)

Cerulean Warbler - *Dendroica cerulea* (Wilson)

Creeper Mussel - *Strophitus undulatus* (Say)

Deertoe Mussel - *Truncilla truncata* (Rafinesque)

Eastern Chipmunk - *Tamias striatus* (Linnaeus)

Eastern Hognose Snake - *Heterodon platirhinos* (Latreille)

Fawnsfoot Mussel - *Truncilla donaciformis* (Lea)

Ferruginous Hawk - *Buteo regalis* (Gray)

Glossy Snake - *Arizona elegans* (Kennicott)

Highfin Carpsucker - *Carpionodes velifer* (Rafinesque)

Prairie Mole Cricket - *Gryllotalpa major* (Sauss)

Reg-Shouldered Hawk - *Buteo lineatus* (Gmelin)

River Redhorse - *Moxostoma carinatum* (Cope)

Round Pigtoe Mussel - *Pleurobema coccineum* (Conrad)

Short-Eared Owl - *Asio flammeus* (Pontoppidan)

Slough Darter - *Etheostoma gracile* (Girard)

Wabash Pigtoe Mussel - *Fusconaia flava* (Rafinesque)

(Continued)

Montgomery County, Kansas (cont.)

Wartyback Mussel - *Quadrula nodulata* (Rafinesque)

Washboard Mussel - *Megalonaias nervosa* (Rafinesque)

Yellow Sandshell Mussel - *Lampsilis teres* (Rafinesque)



**THREATENED AND ENDANGERED SPECIES
KNOWN OR LIKELY TO OCCUR
IN
MONTGOMERY COUNTY, KANSAS**

American Burying Beetle (*Nicrophorus americanus*) - Endangered: Known to occur in suitable habitat. Prefers loose sandy/clay loam soils in grasslands and along upland woodland edges. *Critical habitat has been designated.* Endangered nationally.

Bald Eagle (*Haliaeetus leucocephalus*) - Threatened: Known to occur as a regular seasonal transient or winter resident. *Critical habitat has been designated.* Threatened nationally.

Butterfly Mussel (*Ellipsaria lineolata*) - Threatened: An obligate riverine mussel preferring clean water with good current over gravel substrate. Currently has been documented in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

Common Map Turtle (*Graptemys geographica*) - Threatened: Semi-aquatic in nature, this turtle may occur in large streams, lakes and oxbows having abundant basking sites, slow to moderate current, soft substrate with much aquatic vegetation, and tree-lined banks. Historically occurred throughout eastern Kansas south of the Kansas River and east of the Flint Hills.

Eastern Spotted Skunk (*Spilogale putorius interrupta*) - Threatened: Known to occur near woodland edges in grasslands with shrub clumps or rock outcrops, and in abandoned farmsteads where old buildings or debris piles provide cover. *Critical habitat has been designated.*

Eskimo Curlew (*Numenius borealis*) - Endangered: Formerly a regular spring migrant using plowed fields, heavily grazed and burned grasslands. Was most common in the eastern 2/3 of the state, but has not been verified in Kansas since 1902. A few birds may still migrate through the state. Endangered nationally.

Flutedshell Mussel (*Lasmigona costata*) - Threatened: An obligate riverine mussel dependent upon clean riffles comprised of small to medium size gravel with clean water having moderate current.

Least Tern (*Sterna antillarum*) - Endangered: Known to occur as an uncommon seasonal transient or summer visitant. Endangered nationally.

Neosho Mucket Mussel (*Lampsilis rafinesqueana*) - Endangered: An obligate riverine mussel preferring shallow clean-flowing water over a substrate of fine to medium size gravel. Currently known in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

(continued)

Montgomery Co. Threatened & Endangered Species - Page 2

Ouachita Kidneyshell Mussel (*Ptychobranhus occidentalis*) - Threatened: An obligate riverine mussel requiring clean-flowing water over gravel substrate. Known to occur at much reduced numbers in main stems and major tributaries of the Verdigris River. ***Critical habitat has been designated.***

Peregrine Falcon (*Falco peregrinus*) - Endangered: May occur as an uncommon seasonal transient or winter visitant. Prefers areas with large concentrations of waterfowl.

Piping Plover (*Charadrius melodus*) - Threatened: May occur as a rare seasonal transient at sparsely vegetated shorelines of stream, marshes, or impoundments. Threatened nationally.

Rabbitsfoot Mussel (*Quadrula cylindrica cylindrica*) - Endangered: A riverine mussel requiring clear streams with sandy gravel substrates and moderate currents. Currently known in the Verdigris River. ***Critical habitat has been designated.***

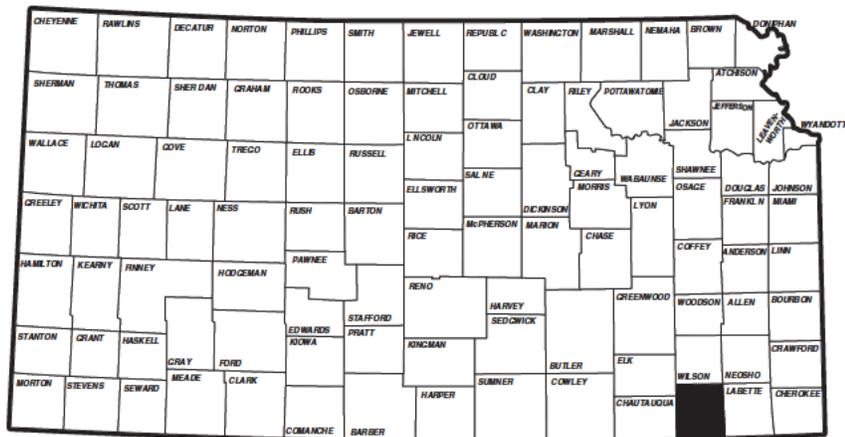
Snowy Plover (*Charadrius alexandrinus*) - Threatened: May occur as an occasional seasonal transient and summer visitant at sparsely vegetated wetlands and impoundment shorelines.

Western Fanshell Mussel (*Cyprogenia aberti*) - Endangered: An obligate riverine mussel found in mud, sand, gravel, and cobble substrate, generally associated with riffles with less than three feet of water depth. Only scattered individuals have been recently documented in the Verdigris River. ***Critical habitat has been designated.***

White-faced Ibis (*Plegadis chihi*) - Threatened: May occur as an occasional seasonal or summer visitant at wetlands and impoundments.

MONTGOMERY COUNTY

COUNTY LOCATOR MAP



STATUS KEY

THR = Threatened

END = Endangered

SNC = Species In Need of Conservation

CAN = Candidate Listing

NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

American Burying Beetle *Nicrophorus americanus*
State: END Federal: END Critical Habitat: YES

Bald Eagle *Haliaeetus leucocephalus*
State: THR Federal: THR Critical Habitat: YES

Butterfly Mussel *Ellipsaria lineolata*
State: THR Federal: NA Critical Habitat: YES

Common Map Turtle *Graptemys geographica*
State: THR Federal: NA Critical Habitat: NO

Eastern Spotted Skunk *Spilogale putorius*
State: THR Federal: NA Critical Habitat: YES

Eskimo Curlew *Numenius borealis*
State: END Federal: END Critical Habitat: NO

Flutedshell Mussel *Lasmigona costata*
State: THR Federal: NA Critical Habitat: NO

Least Tern *Sterna antillarum*
State: END Federal: END Critical Habitat: NO

Neosho Mucket Mussel *Lampsilis rafinesqueana*
State: END Federal: NA Critical Habitat: YES

Ouachita Kidneyshell Mussel *Pychobranchus occidentalis*
State: THR Federal: NA Critical Habitat: YES

Peregrine Falcon *Falco peregrinus*
State: END Federal: NA Critical Habitat: NO

Piping Plover *Charadrius melodus*
State: THR Federal: THR Critical Habitat: NO

Rabbitsfoot Mussel *Quadrula cylindrica*
State: END Federal: NA Critical Habitat: YES

Snowy Plover *Charadrius alexandrinus*
State: THR Federal: NA Critical Habitat: NO

Western Fanshell Mussel *Cyprogenia aberti*
State: END Federal: NA Critical Habitat: YES

SPECIES IN NEED OF CONSERVATION (SINC)

Alligator Snapping Turtle *Macrochelys temminckii*
State: SNC Federal: NA Critical Habitat: NA

Black Tern *Chlidonias niger*
State: SNC Federal: NA Critical Habitat: NA

Brindled Madtom *Noturus miurus*
State: SNC Federal: NA Critical Habitat: NA

Cerulean Warbler *Dendroica cerulea*
State: SNC Federal: NA Critical Habitat: NA

Creeper Mussel *Strophitus undulatus*
State: SNC Federal: NA Critical Habitat: NA

Deertoe Mussel *Truncilla truncata*
State: SNC Federal: NA Critical Habitat: NA

Eastern Hognose Snake *Heterodon platirhinos*
State: SNC Federal: NA Critical Habitat: NA

Fawnsfoot Mussel *Truncilla donaciformis*
State: SNC Federal: NA Critical Habitat: NA

Ferruginous Hawk *Buteo regalis*
State: SNC Federal: NA Critical Habitat: NA

Glossy Snake *Arizona elegans*
State: SNC Federal: NA Critical Habitat: NA

Highfin Carpsucker *Carpiodes velifer*
State: SNC Federal: NA Critical Habitat: NA

Prairie Mole Cricket *Gryllotalpa major*
State: SNC Federal: NA Critical Habitat: NA

Reg-Shouldered Hawk *Buteo lineatus*
State: SNC Federal: NA Critical Habitat: NA

River Redhorse *Moxostoma carinatum*
State: SNC Federal: NA Critical Habitat: NA

Round Pigtoe Mussel *Pleurobema coccineum*
State: SNC Federal: NA Critical Habitat: NA

Short-eared Owl *Asio flammeus*
State: SNC Federal: NA Critical Habitat: NA

Slough Darter *Etheostoma gracile*
State: SNC Federal: NA Critical Habitat: NA

Wabash Pigtoe Mussel *Fusconaia flava*
State: SNC Federal: NA Critical Habitat: NA

Wartyback Mussel *Quadrula nodulata*
State: SNC Federal: NA Critical Habitat: NA

Washboard Mussel *Megaloniais nervosa*
State: SNC Federal: NA Critical Habitat: NA

Yellow Sandshell Mussel *Lampsilis teres*
State: SNC Federal: NA Critical Habitat: NA

Federally Endangered, Threatened, Proposed, and Candidate Species in Oklahoma

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>Birds</u>		
<i>Vermivora bachmanii</i>	Bachman's warbler	LE-EX
<i>Vireo atricapilla</i>	Black-capped vireo	LE
<i>Numenius borealis</i>	Eskimo curlew	LE-EX
<i>Sterna antillarum</i>	Interior least tern	LE
<i>Campephilus principalis</i>	Ivory-billed woodpecker	LE-EX
<i>Tympanuchus pallidicinctus</i>	Lesser prairie chicken	PT
<i>Charadrius melodus</i>	Piping plover	LT
<i>Anthus spragueii</i>	Sprague's pipit	C
<i>Picoides borealis</i>	Red-cockaded woodpecker	LE
<i>Grus americana</i>	Whooping crane	LE
<u>Fishes</u>		
<i>Etheostoma cragini</i>	Arkansas darter	C
<i>Notropis girardi</i>	Arkansas River shiner	LT
<i>Percina pantherina</i>	Leopard darter	LT
<i>Noturus placidus</i>	Neosho madtom	LT
<i>Amblyopsis rosae</i>	Ozark cavefish	LT
<u>Insects</u>		
<i>Nicrophorus americanus</i>	American burying beetle	LE
<u>Mammals</u>		
<i>Mustela nigripes</i>	Black-footed ferret	LE-EX
<i>Myotis grisescens</i>	Gray bat	LE
<i>Canis lupus</i>	Gray wolf	LE-EX
<i>Ursus arctos horribilis</i>	Grizzly bear	LT-EX
<i>Myotis sodalis</i>	Indiana bat	LE
<i>Corynorhinus townsendii ingens</i>	Ozark big-eared bat	LE
<i>Canis rufus</i>	Red wolf	LE-EX
<u>Mussels</u>		
<i>Lampsilis rafinesqueana</i>	Neosho mucket mussel	PE
<i>Arkansia wheeleri</i>	Ouachita rock-pocketbook mussel	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot mussel	PT
<i>Leptodea leptodon</i>	Scaleshell mussel	LE
<i>Quadrula fragosa</i>	Winged mapleleaf mussel	LE
<u>Reptiles</u>		
<i>Alligator Mississippiensis</i>	American alligator	LT-SA

Plants

<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT-EX
<i>Platanthera praeclara</i>	Western prairie fringed orchid	LT-EX
<i>Ptilimnium nodosum</i>	Harperella	LE

Key

LE	Listed endangered
LT	Listed threatened
PE	Proposed Endangered
PT	Proposed threatened
EX	Believed to be extirpated in Oklahoma
SA	Endangered due to similarity of appearance to other listed species.
C	Candidate (The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities).

Last Updated: February 4, 2013

Prepared by U.S. Fish and Wildlife Service, Oklahoma Ecological Services Office

County by County List of Endangered and Threatened Species

Adair County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Long-nosed Darter (*Percina nasuta*) – endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed threatened and endangered in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Alfalfa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Whooping Crane (*Grus americana*) - endangered

Atoka County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Beaver County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Whooping Crane (*Grus americana*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Beckham County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Blaine County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Bryan County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Caddo County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Canadian County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Carter County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cherokee County**State-listed Threatened and Endangered Species:**

- Neosho Mucket (*Lampsilis rafinesqueana*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Choctaw County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Scaleshell (*Leptodea leptodon*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cimarron County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Cleveland County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Coal County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered

Comanche County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Black-capped Vireo (*Vireo atricapillus*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Cotton County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Craig County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
 Neosho Madtom (*Noturus placidus*) – threatened
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Creek County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Custer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Delaware County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Oklahoma Cave Crayfish (*Cambarus tartarus*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Dewey County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Ellis County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Garfield County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Garvin County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Grady County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Grant County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Greer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harmon County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harper County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Haskell County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Hughes County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Jackson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Jefferson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Johnston County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Kay County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Kingfisher County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Kiowa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Latimer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

LeFlore County

State-listed Threatened and Endangered Species:

- Black-sided Darter (*Percina maculata*) -threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

Lincoln County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Logan County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Love County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Major County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Marshall County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Mayes County**State-listed Threatened and Endangered Species:**

None

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) – endangered
- Piping Plover (*Charadrius melodus*) – threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

McClain County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

McCurtain County**State-listed Threatened and Endangered Species:**

- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Red-cockaded Woodpecker (*Picoides borealis*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Winged Mapleleaf (*Quadrula fragosa*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

McIntosh County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Murray County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Muskogee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Noble County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Nowata County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered; historic occurrence in Verdigris River

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Okfuskee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Oklahoma County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Okmulgee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Osage County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Ottawa County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*)

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Gray Bat (*Myotis grisescens*) – endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) – threatened

Neosho Madtom (*Noturus placidus*) – threatened

Ozark Cavefish (*Amblyopsis rosae*) - threatened

Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Pawnee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Payne County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pittsburg County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pontotoc County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pottawatomie County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened**Pushmataha County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangeredIndiana Bat (*Myotis sodalis*) - endangeredInterior Least Tern (*Sterna antillarum*) - endangeredRed-cockaded Woodpecker (*Picoides borealis*) - endangeredOuachita Rock Pocketbook (*Arkansia wheeleri*) – endangeredScaleshell (*Leptodea leptodon*) - endangeredWinged Mapleleaf (*Quadrula fragosa*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedLeopard Darter (*Percina pantherina*) - threatened**Roger Mills County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangeredInterior Least Tern (*Sterna antillarum*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedArkansas River Shiner (*Notropis girardi*) – threatenedLesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation**Rogers County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Seminole County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Sequoyah County

State-listed Threatened and Endangered Species:

- Long-nosed Darter (*Percina nasuta*) - endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Stephens County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Texas County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Tillman County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Tulsa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Wagoner County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Washington County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Piping Plover (*Charadrius melodus*) - threatened

Washita County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Woods County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Woodward County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Table 4-1-B
Zone 4
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25			43						
CRCT-Plainville Station	Skimmer	1									
CRCT-Winfield Office	Vacuum Truck	1		300							
CRCT-Winfield Office	Transport with pump	25			28						
CRCT-Winfield Office	Skimmer	1									
CRCT-Bartlesville Station	Vacuum Truck	4		300							
CRCT-Bartlesville Station	Transport with pump	25			50						
CRCT-Bartlesville Station	Skimmer	1			71.5						
CRCT (all stations)	Skimmer	1									
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	(b) (7)(F), (b) (3)
Vacuum Truck Total Quantity	(b) (7)(F), (b) (3)
Transport Total Quantity	(b) (7)(F), (b) (3)

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Herfel - Hays, KS	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
Herfel - Hays, KS	Skimmer	1			25						
ACME - Tulsa, OK	Skimmer	4			80						
Veolia - Kansas City, MO	Vacuum Truck	6		300							
Veolia - Kansas City, MO	Skimmer	1			80						
A Clean Environment - Tulsa, OK	Skimmer	6			245						

Skimmer Total Quantity	(b) (7)(F), (b) (3)
Vacuum Truck Total Quantity	(b) (7)(F), (b) (3)
Transport Total Quantity	(b) (7)(F), (b) (3)

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- a) EDRC Effective Daily Recovery Capacity.
 CRCT Coffeyville Resources Crude Transportation, LLC.
 CRT Coffeyville Resources Terminal, LLC.
 bpd barrels per day.
 bph barrels per hour.
 b) Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
 Herfel Herfel Tank Service, Inc., Hays, KS.
 ACME ACME Environmental Spill Response Resources, Tulsa, OK.
 Veolia Veolia Environmental Services, Kansas City, MO.
 A Clean Environment, Tulsa, OK.
 c) Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
 d) Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
 e) Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
 f) Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
 g) Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Full quantity identified available for Tier 3 Response.
 h) Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 $R = D \times U$, where
 R—Effective daily recovery capacity;
 D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 U—Hours per day that equipment can operate under discharge conditions.
 CRT can sustain recovery operations for 12 hours per day.
 i) Summation of skimmer rate (bpd) based on $R = D \times U$.
 j) Summation of vacuum truck rate (bpd) based on $R = D \times U$.
 k) Summation of transport rate based on $R = D \times U$. Assumes 6 hrs for travel, load, and unload.
 l) Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC:	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E:	(b) (7)(F), (b) (3)		
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Contracted and Identified EDRC above CAP:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E (i):	(b) (7)(F), (b) (3)		
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E:	(b) (7)(F), (b) (3)		
EDRC Requirement Evaluation:	MET	MET	MET

Zone 4 Worksheet
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1566
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
<u>Explosion Data</u>	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

<u>NFPA</u>	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil,3,UN1267,PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL,3,UN1267,PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto,3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

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16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
\$5,000,000.00 each occurrence.
\$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
Statutory Limits.
- E. Professional Liability:
\$2,000,000.00 per loss.
\$2,000,000 annual aggregate.
- F. Pollution Liability:
\$1,000,000.00 per loss.
\$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

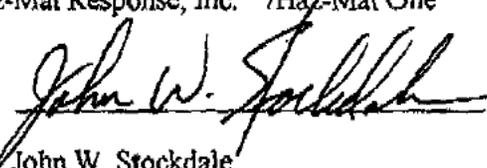
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-782-6206

Fax #: 913-905-0290

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:
 - A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and
 - B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas; and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas; and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.
3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

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If to Customer, at the address following Customer's signature to this Agreement;

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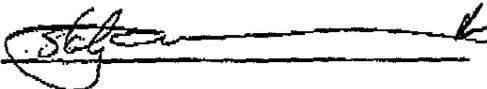
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WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

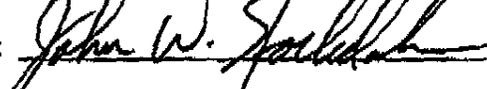
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

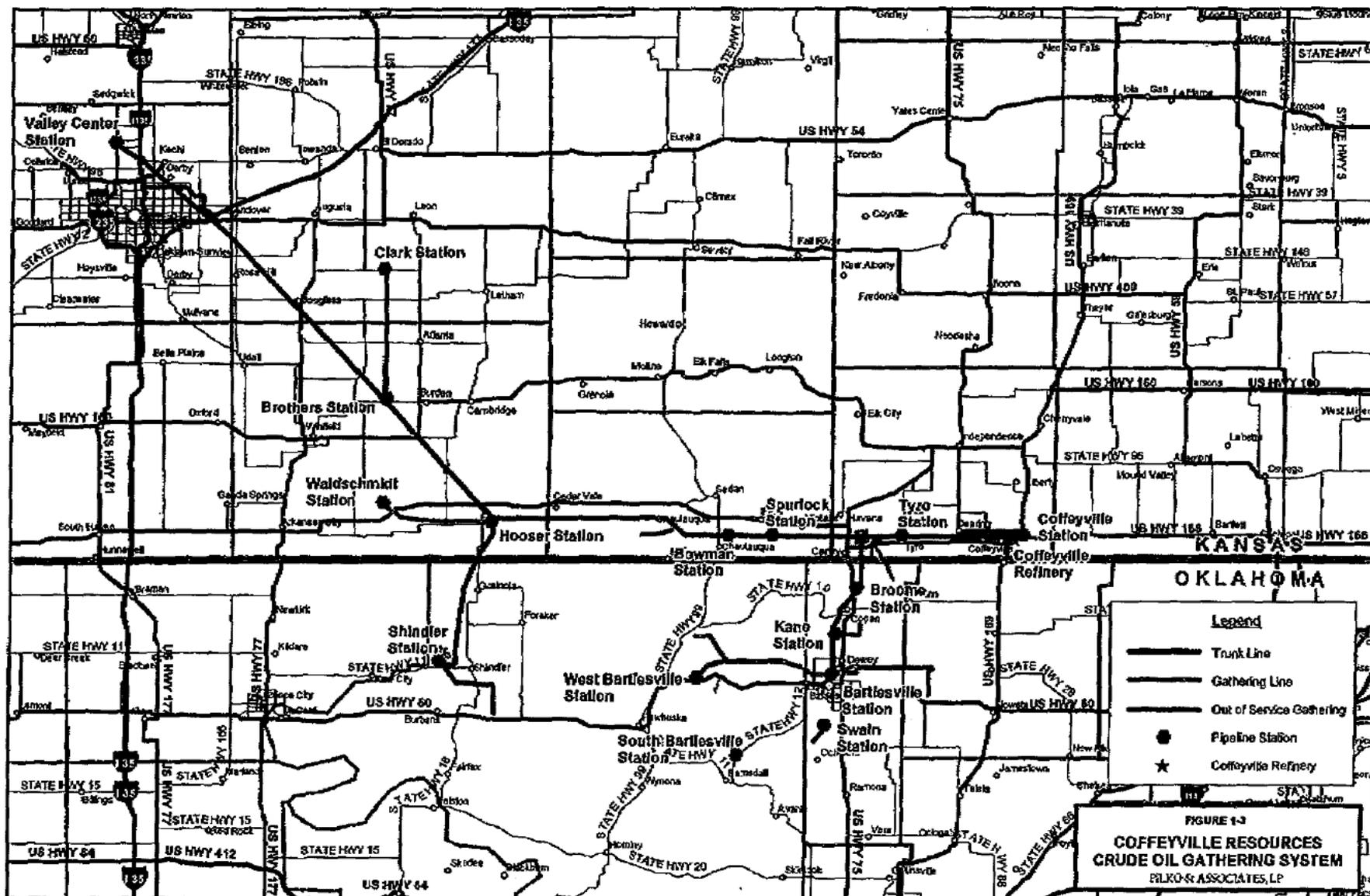
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A



106675.00

17

Response Zone # 5 Appendix

Response Zone # 5 Description

The pipeline in this response zone consists of an 8-inch crude oil pipeline known as the Hooser Station to Broome Station 8-inch pipeline.

The 8-inch line crosses the Big Caney River approximately two miles southeast of Cedarvale, Kansas, NW ¼ of Section 19, T-34S, R-9E. Crude oil entering the river at this point could travel down river approximately 15 miles and enter Hulah Lake.

The location of the section of the Hooser Station to Broome Station 8-inch pipeline which could affect this zone is from the SW ¼ of the SW ¼ of Section 13, T-34S, R-8E extending east to the NE ¼ of the NE ¼ of Section 19, T-34S, R-9E.

This pipeline section is the only one which could affect this response zone.

Response Zone # 5 Location

This zone starts approximately 2 miles southeast of Cedarvale, Kansas, and extends down river approximately 15 miles before entering Hulah Lake. The lake is approximately 3 square miles in area (see map at the end of the Zone 5 tab).

Basis for Determination Of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreation area, and a state wildlife management area.

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young	(620) 221-2107		

IMP Manager

Darren Brake (918) 333-4111
Maintenance Foreman (Ext. 5014)

Marvin McDonald (918) 333-4111
Trucking Manager (Ext. 5009)

John Bullen (918) 333-4111
Truck Coordinator (Ext. 5016)

Earl Burns (918) 333-9644
Truck Coordinator (Ext. 5004)

Mike Cogdill (918) 333-4111
EHS Supervisor (Ext. 5005)

Sheila Leach (918) 333-4111
EHS Technician (Ext. 5025)

(b) (6)

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body or water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.

- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

Corp of Engineers

Any discharge of crude oil that would affect the Hulah Lake area must be reported to the Corp of Engineers at: (918) 669-7325.

State of Oklahoma

Crude oil discharges in the state of Oklahoma may have to be reported to two different State agencies.

All crude oil discharges to navigable water and discharges in excess of 5 gallons to land must be reported to the Oklahoma Corporation Commission. If the crude oil discharge occurs in Osage County, contact the Bristow office at: (918) 367-3396.

The local Oklahoma Corporation Commission field representative may be called instead of calling Bristow. The field representatives are Mike Brown telephone number: (918) 807-0997 and Jim Waite (918) 697-3056.

Crude oil discharges of 5 gallons or more on land or any amount on a waterway, must be reported to the Oklahoma Department of Environmental Quality at: (800) 522-0206.

Persons reporting a discharge to either State agency should have the following information available:

- Name of pipeline
- Type of oil discharge
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill

- Distance to nearest stream or body of water

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Chautauqua County, Kansas, contact the Chanute office at (620) 431-2390.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is (785) 296-1679. The regular call to the Chanute office should also be made the next business day.

Persons reporting a discharge should have the following information available:

- Name of pipeline
- Type of oil released
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)

Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been

trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as booms and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat

- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.

- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 5, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 5 Tab. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles

- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Oklahoma

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VI	(866) 372-7745
Oklahoma Corporation Commission (Bristow Office) (Area Representative)	(918) 367-3396 (918) 807-0997 or (918) 697-3056
Oklahoma Dept. of Env. Quality	(800) 522-0206
Corp of Engineers (Hulah)	(918) 532-4334
Osage County Sheriff	(918) 287-3131
Highway Patrol (Vinita)	(918) 256-3388
Local Emergency Planning Committee (Osage County)	(918) 287-3131
Osage Indian Agency	(918) 287-5555
Oklahoma One Call	(800) 522-6543
Hulah Water Dist.	(918) 336-0008
Osage Co. Fire, Ambulance	(918) 287-4210

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Chautauqua County) (Topeka 24-hr number)	(620) 431-2390 (785) 296-1679
Corp of Engineers	(918) 669-7325
Chautauqua County Sheriff	(620) 725-3108

Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Local Emergency Planning Committee (Chautauqua County)	(620) 429-1857
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233
Hulah Water Dist.	(918) 336-0008
Chautauqua County Fire, Ambulance	911

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at an approximately gravity range of 35.0 to 40.0.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the volume of the largest breakout tank in the zone and applying a 50 percent prevention credit for the breakout tank within adequate secondary containment.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

(b) (3), (b) (7)(F)

(b) (3), (b) (7)(F)

Implemented in 2013, CRCT

(b) (3), (b) (7)(F)

Worst case discharge estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)

Potentially Affected Public Drinking Water Intakes, Lakes, Rivers, and Streams Within A Five Mile Radius Of Line Section

(b) (7)(F), (b) (3)

Environmentally Sensitive Area Within a One Mile Radius of The Line Section

The Caney River and Hulah Lake are public use areas for hunting and fishing and state recreation areas. These would be considered environmentally sensitive areas.

Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 5 response locations and supporting information

for sensitive habitats/areas is provided in this Section in the Zone 5 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.

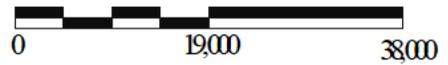
Reference

TopoZone.com Maps a la carte Inc.
Custom Map Created 10/26/05

- - Water Intake
- - Response Location



Quadrangle Location



Approximate
Scale in feet



Coffeyville Resources Crude Transportation, LLC
P.O. Box 3516
411 NE Washington Boulevard
Bartlesville, Oklahoma 74006
918-333-4111

Zone 5
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crossttimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crossttimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crossttimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R		Potential Lake Access			
	OK	Washington	Caney River	Crossttimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R		Shoreline Access			
	OK	Washington	Caney River	Crossttimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crossttimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake	(b) (7)(F), (b) (3)	1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake	(b) (7)(F), (b) (3)	1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200	290	Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R			Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R			300		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200	275	Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R			Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominy Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominy Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)	(b) (7)(F), (b) (3)	1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneysnell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneysnell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneysnell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

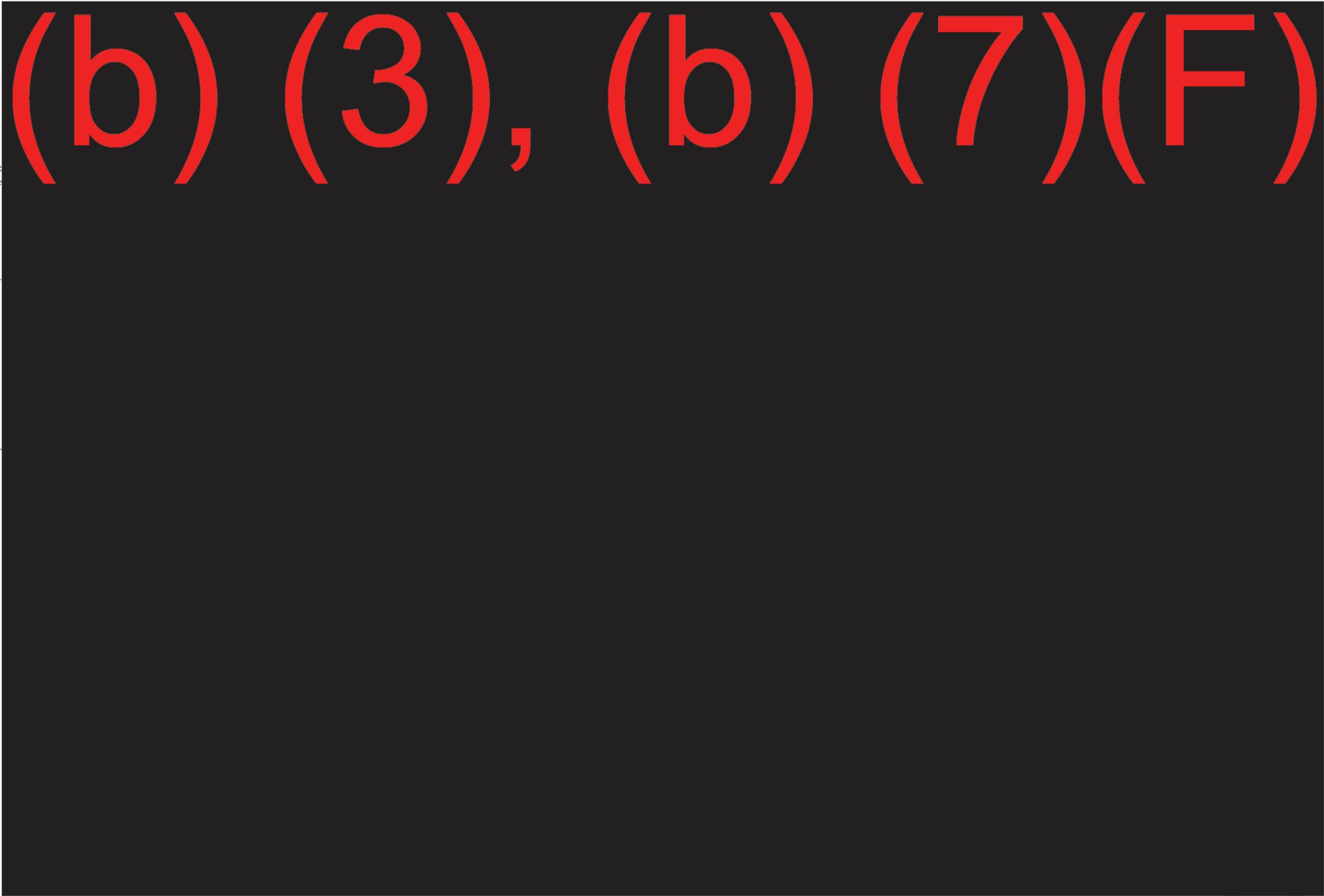
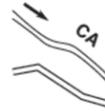
Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>	
Neosho	American Burying Beetle	E	E	N/A	
	Bald Eagle	T	T	7	
	Butterfly Mussel	T	N	7	
	Common Map Turtle	T	N	N/A	
	Eastern Spotted Skunk	T	N	N/A	
	Eskimo Curlew	E	E	N/A	
	Flat Floater Mussel	E	N	N/A	
	Flutedshell Mussel	T	N	7	
	Least Tern	E	E	N/A	
	Neosho Madtom	T	T	7	
	Neosho Mucket Mussel	E	N	7	
	Ouachita Kedneyshell Mussel	T	N	7	
	Peregrine Falcon	E	N	N/A	
	Piping Plover	T	T	N/A	
	Rabbitsfoot Mussel	E	N	7	
	Redspot Chub	T	N	N/A	
	Snowy Plover	T	N	N/A	
	Western Fanshell Mussel	E	N	N/A	
	Wilson	American Burying Beetle	E	E	7
		Bald Eagle	T	T	N/A
Butterfly Mussel		T	N	N/A	
Common Map Turtle		T	N	N/A	
Eastern Spotted Skunk		T	N	7	
Eskimo Curlew		E	E	N/A	
Flutedshell Mussel		T	N	N/A	
Least Tern		E	E	N/A	
Neosho Mucket Mussel		E	N	N/A	
Ouachita Kedneyshell Mussel		T	N	N/A	
Peregrine Falcon		E	N	N/A	
Piping Plover		T	T	N/A	
Rabbitsfoot Mussel		E	N	N/A	
Snowy Plover		T	N	N/A	
Western Fanshell Mussel		E	N	N/A	
<u>County in Oklahoma</u>		Nowata		Bald Eagle	AD, T
	Neosho Mucket Mussel			E	4
	Peregrine Falcon			DM	N/A
	Piping Plover			E, T	4
	Osage		Bald Eagle	AD, T	N/A
			Least Tern	E	N/A
			Neosho Mucket Mussel	E	8
			Peregrine Falcon	DM	N/A
			Piping Plover	E	8
	Whooping Crane	E, EXPN	8		
	Washington		Bald Eagle	AD, T	N/A
			Neosho Mucket Mussel	E	9
			Peregrine Falcon	DM	N/A
			Piping Plover	T	9
	Whooping Crane	E, EXPN	N/A		

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

HULAH LAKE

PUBLIC HUNTING AREA



PUBLIC USE AREAS

- 1 Dam Site Area
- 2 Hulah Cove
- 3 Caney Bend
- 4 Turkey Creek Point
- 5 Skull Creek
- 6 Caney River
- 7 Boulanger Landing

LEGEND

- Paved Road
- Improved Road
- Dirt Road
- Project Boundary
- Hunters Camp - Primitive Camping (Deer Season Only)
- Corps Areas Open For Hunting
- State Areas Open For Hunting
- See Restrictions

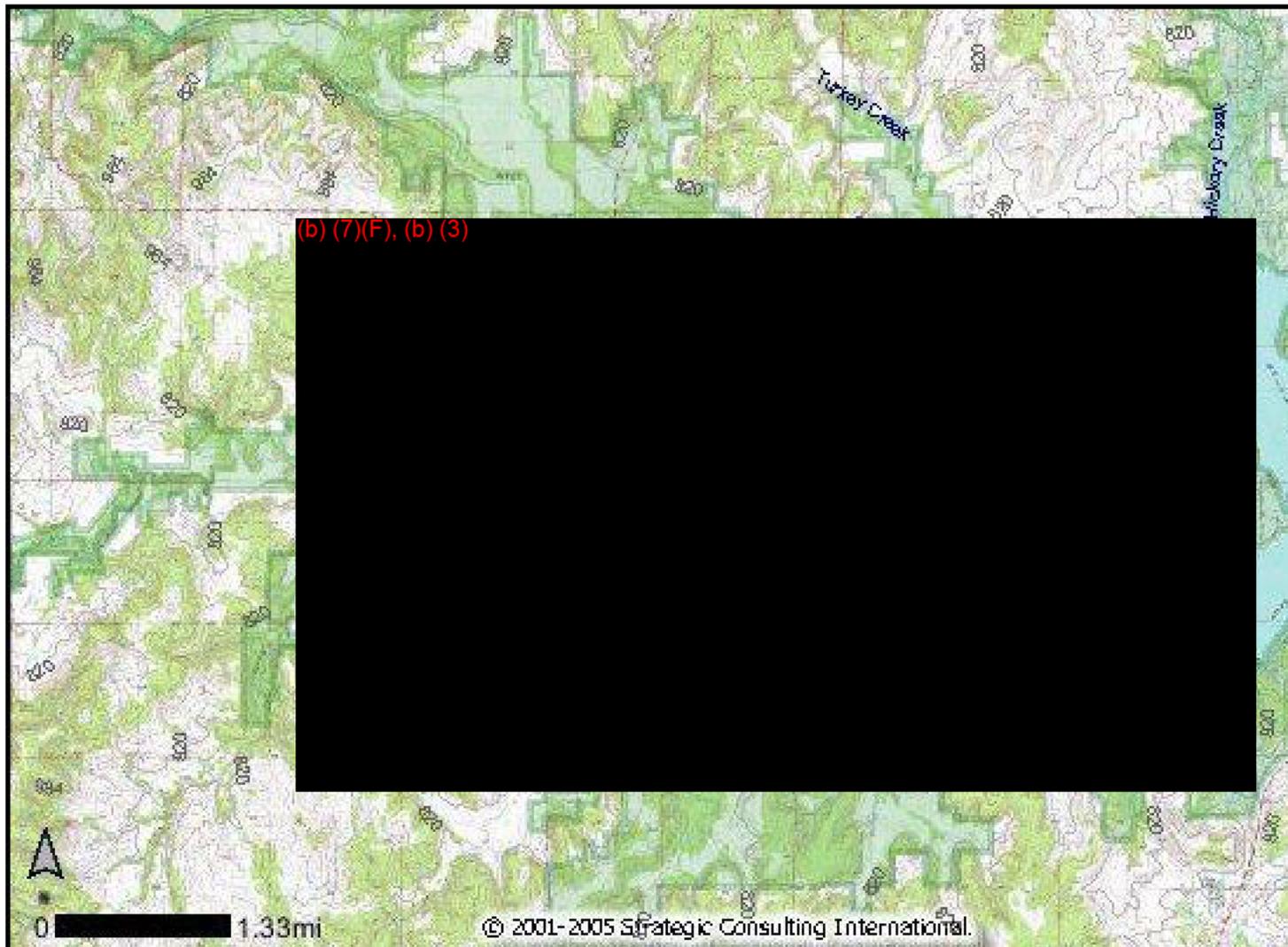


RESERVOIR DATA
 Top of conservation pool El. 733.0
 62 shoreline miles at El. 733.0
 Total project land & water acreage 21510

**US Army Corps
 of Engineers**
 Tulsa District

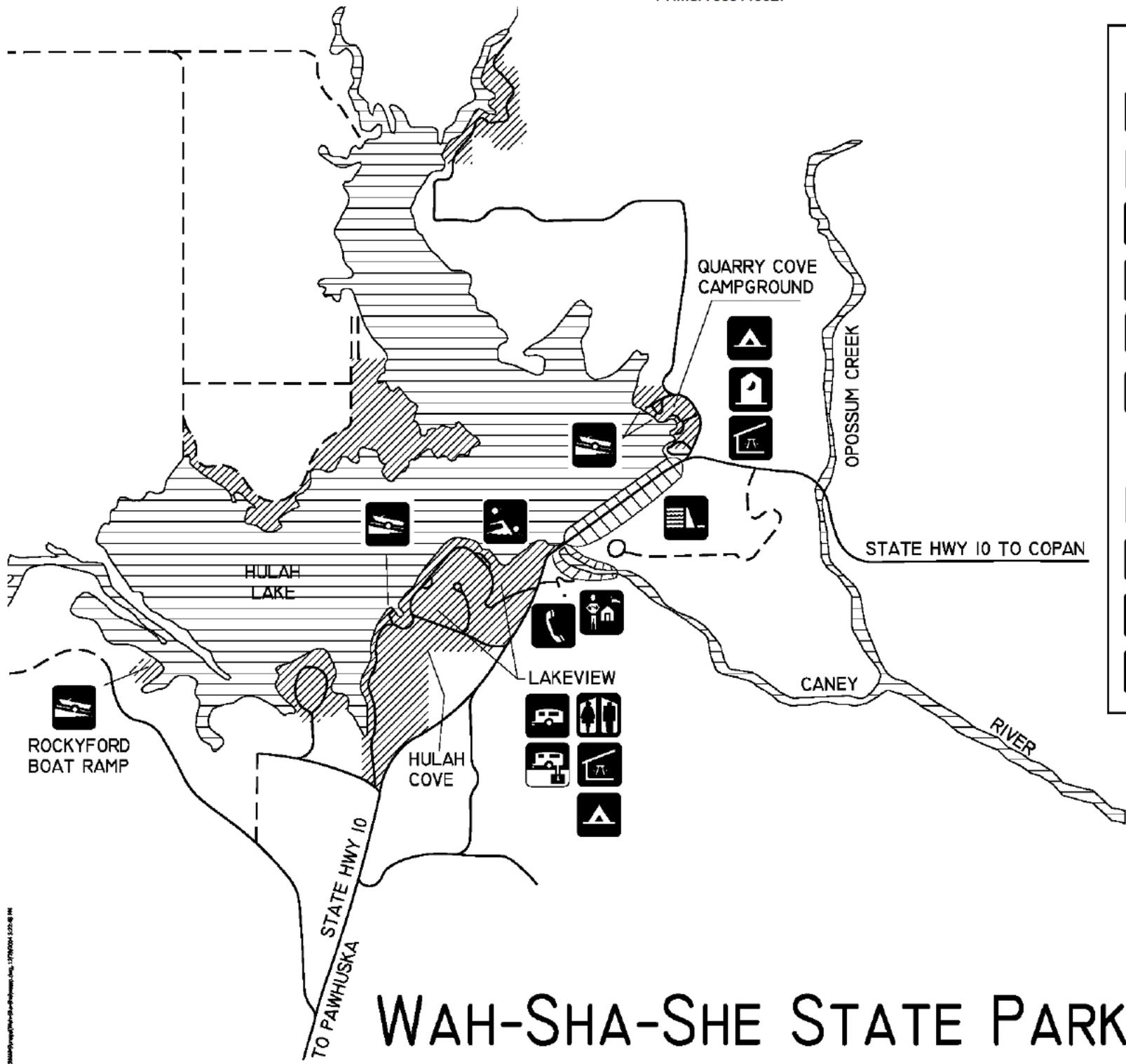
Zone 5: Hulah WMA

10/26/2005



KEY TO SYMBOLS

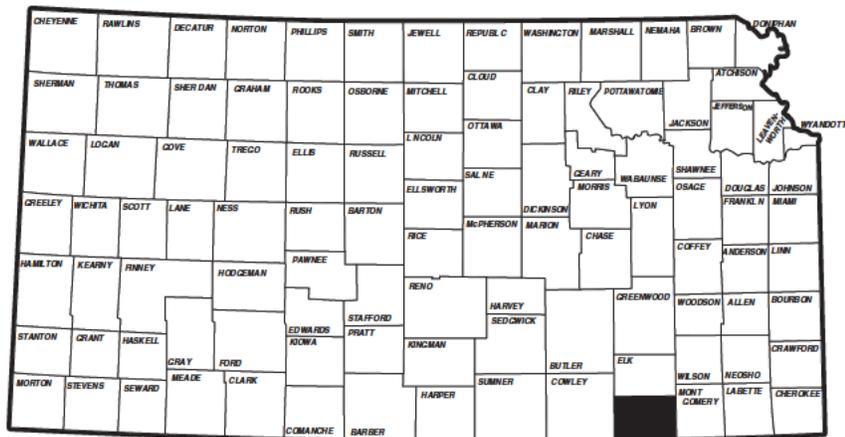
-  PARK OFFICE
-  PAY PHONE
-  COMFORT STATION
-  VAULT TOILET
-  UNIMPROVED CAMPING
-  RV CAMPING
-  RV DUMP STATION
-  BOAT RAMP
-  PICNIC SHELTER
-  SWIM BEACH
-  DAM



WAH-SHA-SHE STATE PARK

CHAUTAUQUA COUNTY

COUNTY LOCATOR MAP



STATUS KEY

THR = Threatened

END = Endangered

SNC = Species In Need of Conservation

CAN = Candidate Listing

NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

American Burying Beetle *Nicrophorus americanus*
State: END Federal: END Critical Habitat: YES

Bald Eagle *Haliaeetus leucocephalus*
State: THR Federal: THR Critical Habitat: NO

Eastern Spotted Skunk *Spilogale putorius*
State: THR Federal: NA Critical Habitat: YES

Eskimo Curlew *Numenius borealis*
State: END Federal: END Critical Habitat: NO

Flutedshell Mussel *Lasmigona costata*
State: THR Federal: NA Critical Habitat: NO

Least Tern *Sterna antillarum*
State: END Federal: END Critical Habitat: NO

Neosho Mucket Mussel *Lampsilis rafinesqueana*
State: END Federal: NA Critical Habitat: NO

Ouachita Kidneyshell Mussel *Pychobranchus occidentalis*
State: THR Federal: NA Critical Habitat: YES

Peregrine Falcon *Falco peregrinus*
State: END Federal: NA Critical Habitat: NO

Piping Plover *Charadrius melodus*
State: THR Federal: THR Critical Habitat: NO

Snowy Plover *Charadrius alexandrinus*
State: THR Federal: NA Critical Habitat: NO

SPECIES IN NEED OF CONSERVATION (SINC)

Brindled Madtom *Noturus miurus*
State: SNC Federal: NA Critical Habitat: NA

Creeper Mussel *Strophitus undulatus*
State: SNC Federal: NA Critical Habitat: NA

Deertoe Mussel *Truncilla truncata*
State: SNC Federal: NA Critical Habitat: NA

Fat Mucket Mussel *Lampsilis radiata*
State: SNC Federal: NA Critical Habitat: NA

Golden Eagle *Aquila chrysaetos*
State: SNC Federal: NA Critical Habitat: NA

Gray Petaltail Dragonfly *Tachopteryx thoreyi*
State: SNC Federal: NA Critical Habitat: NA

Rough Earth Snake *Virginia striatula*
State: SNC Federal: NA Critical Habitat: NA

Short-eared Owl *Asio flammeus*
State: SNC Federal: NA Critical Habitat: NA

Slough Darter *Etheostoma gracile*
State: SNC Federal: NA Critical Habitat: NA

Spotted Sucker *Minytrema melanops*
State: SNC Federal: NA Critical Habitat: NA

Texas Mouse *Peromyscus atwateri*
State: SNC Federal: NA Critical Habitat: NA

Timber Rattlesnake *Crotalus horridus*
State: SNC Federal: NA Critical Habitat: NA

Wabash Pigtoe Mussel *Fusconaia flava*
State: SNC Federal: NA Critical Habitat: NA

Western Hognose Snake *Heterodon nasicus*
State: SNC Federal: NA Critical Habitat: NA

Whip-poor-will *Camprimulgus vociferus*
State: SNC Federal: NA Critical Habitat: NA

Federally Endangered, Threatened, Proposed, and Candidate Species in Oklahoma

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>Birds</u>		
<i>Vermivora bachmanii</i>	Bachman's warbler	LE-EX
<i>Vireo atricapilla</i>	Black-capped vireo	LE
<i>Numenius borealis</i>	Eskimo curlew	LE-EX
<i>Sterna antillarum</i>	Interior least tern	LE
<i>Campephilus principalis</i>	Ivory-billed woodpecker	LE-EX
<i>Tympanuchus pallidicinctus</i>	Lesser prairie chicken	PT
<i>Charadrius melodus</i>	Piping plover	LT
<i>Anthus spragueii</i>	Sprague's pipit	C
<i>Picoides borealis</i>	Red-cockaded woodpecker	LE
<i>Grus americana</i>	Whooping crane	LE
<u>Fishes</u>		
<i>Etheostoma cragini</i>	Arkansas darter	C
<i>Notropis girardi</i>	Arkansas River shiner	LT
<i>Percina pantherina</i>	Leopard darter	LT
<i>Noturus placidus</i>	Neosho madtom	LT
<i>Amblyopsis rosae</i>	Ozark cavefish	LT
<u>Insects</u>		
<i>Nicrophorus americanus</i>	American burying beetle	LE
<u>Mammals</u>		
<i>Mustela nigripes</i>	Black-footed ferret	LE-EX
<i>Myotis grisescens</i>	Gray bat	LE
<i>Canis lupus</i>	Gray wolf	LE-EX
<i>Ursus arctos horribilis</i>	Grizzly bear	LT-EX
<i>Myotis sodalis</i>	Indiana bat	LE
<i>Corynorhinus townsendii ingens</i>	Ozark big-eared bat	LE
<i>Canis rufus</i>	Red wolf	LE-EX
<u>Mussels</u>		
<i>Lampsilis rafinesqueana</i>	Neosho mucket mussel	PE
<i>Arkansia wheeleri</i>	Ouachita rock-pocketbook mussel	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot mussel	PT
<i>Leptodea leptodon</i>	Scaleshell mussel	LE
<i>Quadrula fragosa</i>	Winged mapleleaf mussel	LE
<u>Reptiles</u>		
<i>Alligator Mississippiensis</i>	American alligator	LT-SA

Plants

<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT-EX
<i>Platanthera praeclara</i>	Western prairie fringed orchid	LT-EX
<i>Ptilimnium nodosum</i>	Harperella	LE

Key

LE	Listed endangered
LT	Listed threatened
PE	Proposed Endangered
PT	Proposed threatened
EX	Believed to be extirpated in Oklahoma
SA	Endangered due to similarity of appearance to other listed species.
C	Candidate (The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities).

Last Updated: February 4, 2013

Prepared by U.S. Fish and Wildlife Service, Oklahoma Ecological Services Office

County by County List of Endangered and Threatened Species

Adair County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Long-nosed Darter (*Percina nasuta*) – endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed threatened and endangered in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Alfalfa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Whooping Crane (*Grus americana*) - endangered

Atoka County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Beaver County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Whooping Crane (*Grus americana*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Beckham County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Blaine County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Bryan County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Caddo County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Canadian County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Carter County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cherokee County**State-listed Threatened and Endangered Species:**

- Neosho Mucket (*Lampsilis rafinesqueana*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Choctaw County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Scaleshell (*Leptodea leptodon*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cimarron County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Cleveland County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Coal County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered

Comanche County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Black-capped Vireo (*Vireo atricapillus*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Cotton County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Craig County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
 Neosho Madtom (*Noturus placidus*) – threatened
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Creek County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Custer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Delaware County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Oklahoma Cave Crayfish (*Cambarus tartarus*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Dewey County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Ellis County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Garfield County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Garvin County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Grady County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Grant County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Greer County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harmon County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harper County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Haskell County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Hughes County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Jackson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Jefferson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Johnston County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Kay County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Kingfisher County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Kiowa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Latimer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

LeFlore County

State-listed Threatened and Endangered Species:

- Black-sided Darter (*Percina maculata*) -threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

Lincoln County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Logan County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Love County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Major County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Marshall County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Mayes County**State-listed Threatened and Endangered Species:**

None

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) – endangered
- Piping Plover (*Charadrius melodus*) – threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

McClain County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

McCurtain County**State-listed Threatened and Endangered Species:**

Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Red-cockaded Woodpecker (*Picoides borealis*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Winged Mapleleaf (*Quadrula fragosa*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

McIntosh County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Murray County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Muskogee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Noble County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Nowata County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered; historic occurrence in Verdigris River

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Okfuskee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Oklahoma County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Okmulgee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Osage County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Ottawa County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*)

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Gray Bat (*Myotis grisescens*) – endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) – threatened

Neosho Madtom (*Noturus placidus*) – threatened

Ozark Cavefish (*Amblyopsis rosae*) - threatened

Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Pawnee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Payne County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pittsburg County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pontotoc County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pottawatomie County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened**Pushmataha County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangeredIndiana Bat (*Myotis sodalis*) - endangeredInterior Least Tern (*Sterna antillarum*) - endangeredRed-cockaded Woodpecker (*Picoides borealis*) - endangeredOuachita Rock Pocketbook (*Arkansia wheeleri*) – endangeredScaleshell (*Leptodea leptodon*) - endangeredWinged Mapleleaf (*Quadrula fragosa*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedLeopard Darter (*Percina pantherina*) - threatened**Roger Mills County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangeredInterior Least Tern (*Sterna antillarum*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedArkansas River Shiner (*Notropis girardi*) – threatenedLesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation**Rogers County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Seminole County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Sequoyah County

State-listed Threatened and Endangered Species:

- Long-nosed Darter (*Percina nasuta*) - endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Stephens County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Texas County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Tillman County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Tulsa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Wagoner County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Washington County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Piping Plover (*Charadrius melodus*) - threatened

Washita County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Woods County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Woodward County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Table 4-1-B

Zone 5
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25	(F), (b)		43						
CRCT-Plainville Station	Skimmer	1	(3)								
CRCT-Winfield Office	Vacuum Truck	1		300							
CRCT-Winfield Office	Transport with pump	25			28						
CRCT-Winfield Office	Skimmer	1									
CRCT-Bartlesville Station	Vacuum Truck	4		300							
CRCT-Bartlesville Station	Transport with pump	25			50						
CRCT-Bartlesville Station	Skimmer	1			71.5						
CRCT (all stations)	Skimmer	1									
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	(f)
Vacuum Truck Total Quantity	(i)
Transport Total Quantity	(k)

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (l) YES YES YES

Identified Resources: Non Contracted (b)											
Hertel - Hays, KS	Vacuum Truck	1	(b)	300		(b) (7)(F), (b) (3)					
Hertel - Hays, KS	Skimmer	1	(7)		25						
ACME - Tulsa, OK	Skimmer	4	(F), (b)		80						
Veolia - Kansas City, MO	Vacuum Truck	6	(b)	300							
Veolia - Kansas City, MO	Skimmer	1			80						
A Clean Environment - Tulsa, OK	Skimmer	6			245						

Skimmer Total Quantity	(f)
Vacuum Truck Total Quantity	(i)
Transport Total Quantity	(k)

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (l) YES YES YES

- a) EDRC Effective Daily Recovery Capacity.
- CRCT Coffeyville Resources Crude Transportation, LLC.
- CRT Coffeyville Resources Terminal, LLC.
- bpd barrels per day.
- bph barrels per hour.
- hr. hour.
- b) Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
- Hertel Hertel Tank Service, Inc., Hays, KS.
- ACME ACME Environmental Spill Response Resources, Tulsa, OK.
- Veolia Veolia Environmental Services, Kansas City, MO.
- A Clean Environment, Tulsa, OK.
- c) Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
- d) Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
- e) Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- f) Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- g) Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Fu I quantity identified available for Tier 3 Response.
- h) Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3

R = D x U, where
 R—Effective daily recovery capacity;
 D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 U—Hours per day that equipment can operate under discharge conditions.
 CRT can sustain recovery operations for 12 hours per day.

- i) Summation of skimmer rate (bpd) based on R = D x U.
- j) Summation of vacuum truck rate (bpd) based on R = D x U.
- k) Summation of transport rate based on R = D x U. Assumes 6 hrs for travel, load, and unload.
- l) Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP			
CRCT Contracted and Identified EDRC above CAP			
EDRC Required Per 40CFR 112.20 Appendix E (i)			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E:			
EDRC Requirement Evaluation:	MET	MET	MET

Zone 5 Worksheet
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
		40
Percent Lost to Natural Dissipation (D1)		15
Percent Recovered Floating Oil (D2)		45
Percent Oil Onshore (D3)		(b) (7)(F), (b) (3)
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1588
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
<u>Explosion Data</u>	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

<u>NFPA</u>	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil, 3, UN1267, PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL, 3, UN1267, PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto, 3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

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16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script, appearing to read "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
\$5,000,000.00 each occurrence.
\$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
Statutory Limits.
- E. Professional Liability:
\$2,000,000.00 per loss.
\$2,000,000 annual aggregate.
- F. Pollution Liability:
\$1,000,000.00 per loss.
\$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

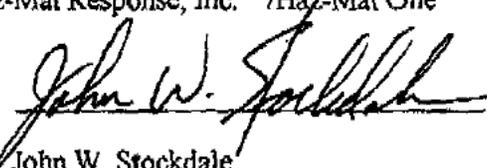
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-782-6206

Fax #: 913-905-0290

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:
 - A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and
 - B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

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3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

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If to HRI, at the address at the beginning of this Agreement;

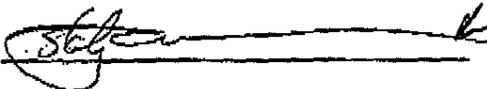
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WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

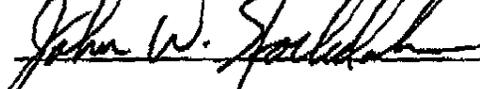
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

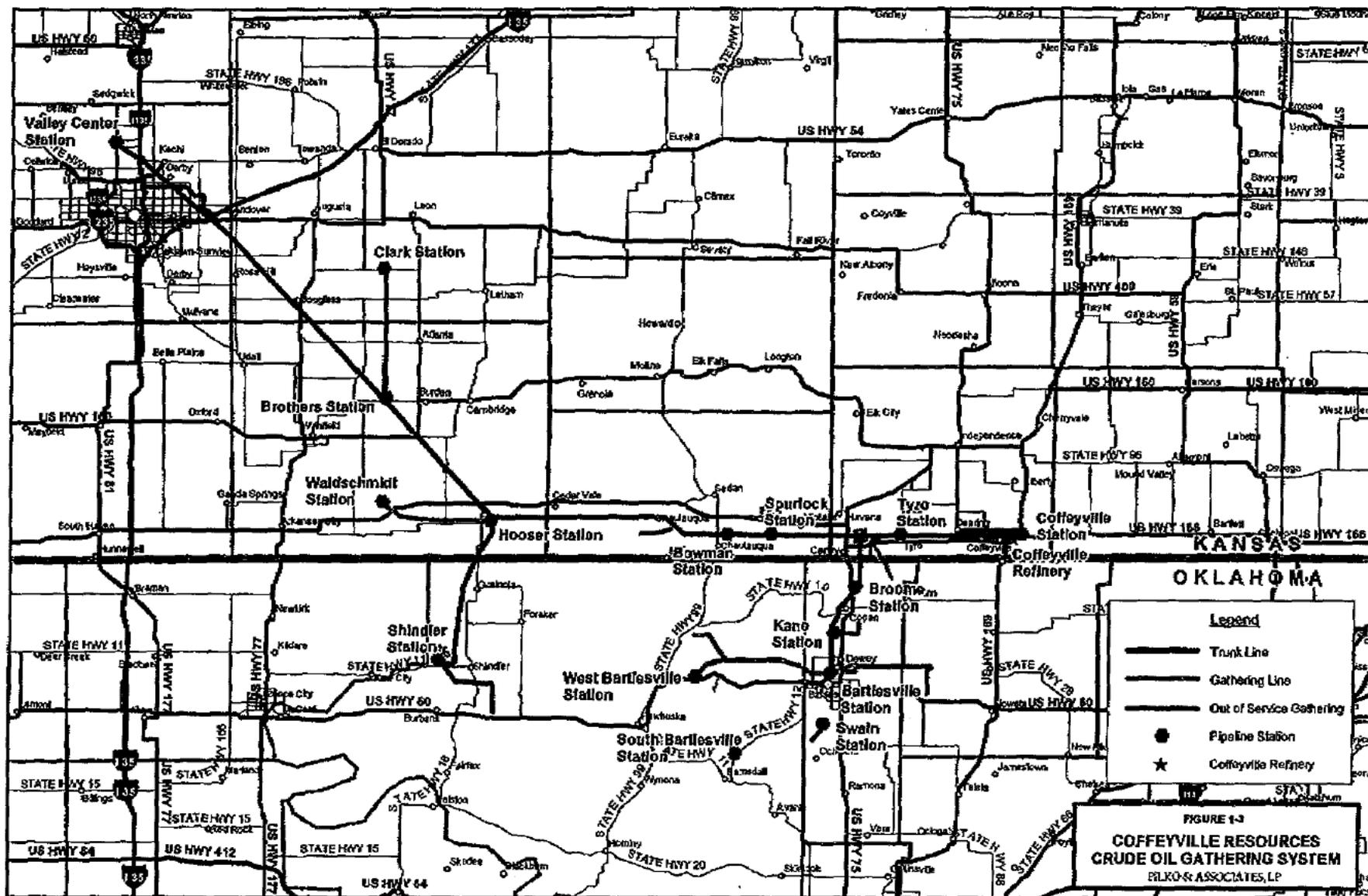
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A



Legend

- Trunk Line
- Gathering Line
- Out of Service Gathering
- Pipeline Station
- Coffeyville Refinery

FIGURE 1-1
COFFEYVILLE RESOURCES
CRUDE OIL GATHERING SYSTEM
 RLKO & ASSOCIATES, LP

106675.00

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Response Zone # 6 Appendix

Response Zone # 6 Description

The pipeline in this response zone consists of a 6-inch crude oil pipeline known as the Valley Center Station to Hooser Station 6-inch pipeline. This line crosses the Walnut River approximately one mile West of Douglass, Kansas, SE ¼ of Section 18, T-29S, R-3E. A crude oil release on or near the river could result in contamination of the Walnut River which is a recreation area.

The location of the Valley Center Station to Hooser Station 6-inch pipeline section which could affect this zone is from the NE ¼ of the NE ¼ of Section 13, T-29S, R-3E extending southeast to SE ¼ of the NE ¼ of Section 19, T-29S, R-4E.

This is the only pipeline section which would affect this response zone.

Response Zone # 6 Location

This zone starts approximately one mile west of Douglass, Kansas, and extends down river approximately 16 miles to one mile south of Winfield, Kansas (see map at the end of the Zone 6 tab).

Basis for Determination Of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a state recreation area.

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		

Darren Brake	(918) 333-4111
Maintenance Foreman	(Ext. 5014)
Marvin McDonald	(918) 333-4111
Trucking Manager	(Ext. 5009)
John Bullen	(918) 333-4111
Truck Coordinator	(Ext. 5016)
Earl Burns	(918) 333-9644
Truck Coordinator	(Ext. 5004)
Mike Cogdill	(918) 333-4111
EHS Supervisor	(Ext. 5005)
Sheila Leach	(918) 333-4111
EHS Technician	(Ext. 5025)

(b) (6)

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body or water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of

the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbs to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Cowley or Butler County, Kansas, contact the Wichita office at (620) 337-6020.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is (785) 296-1679. The regular call to the Wichita office should also be made the next business day.

Persons reporting a discharge should have the following information available:

- Name of pipeline
- Type of oil released
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)

Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area. The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.

- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as booms and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up

- 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute

- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 6, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 6 Tab. It is estimated that the Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within two hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps

- Air blowers
- Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Cowley & Butler County) (Topeka 24-hr number)	(620) 337-6020 (785) 296-1679
Cowley County Sheriff	(620) 221-5555
Butler County Sheriff	(800) 794-0190
Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Butler Co. Fire, Ambulance	(316) 321-9260
Cowley Co. Fire, Ambulance	(620) 221-2300
Local Emergency Planning Committee (Cowley County)	(620) 221-0470
(Butler County)	(620) 733-9796
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling	811 or (800) 344-7233

inside the State of Kansas)

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

(b) (3), (b) (7)(F)

Worst case discharge estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)

Potentially Affected Public Drinking Water Intakes, Lakes, Rivers, and Streams Within a Five Mile Radius of Line Section

(b) (7)(F), (b) (3)

Environmentally Sensitive Area Within a One Mile Radius Of The Line Section.

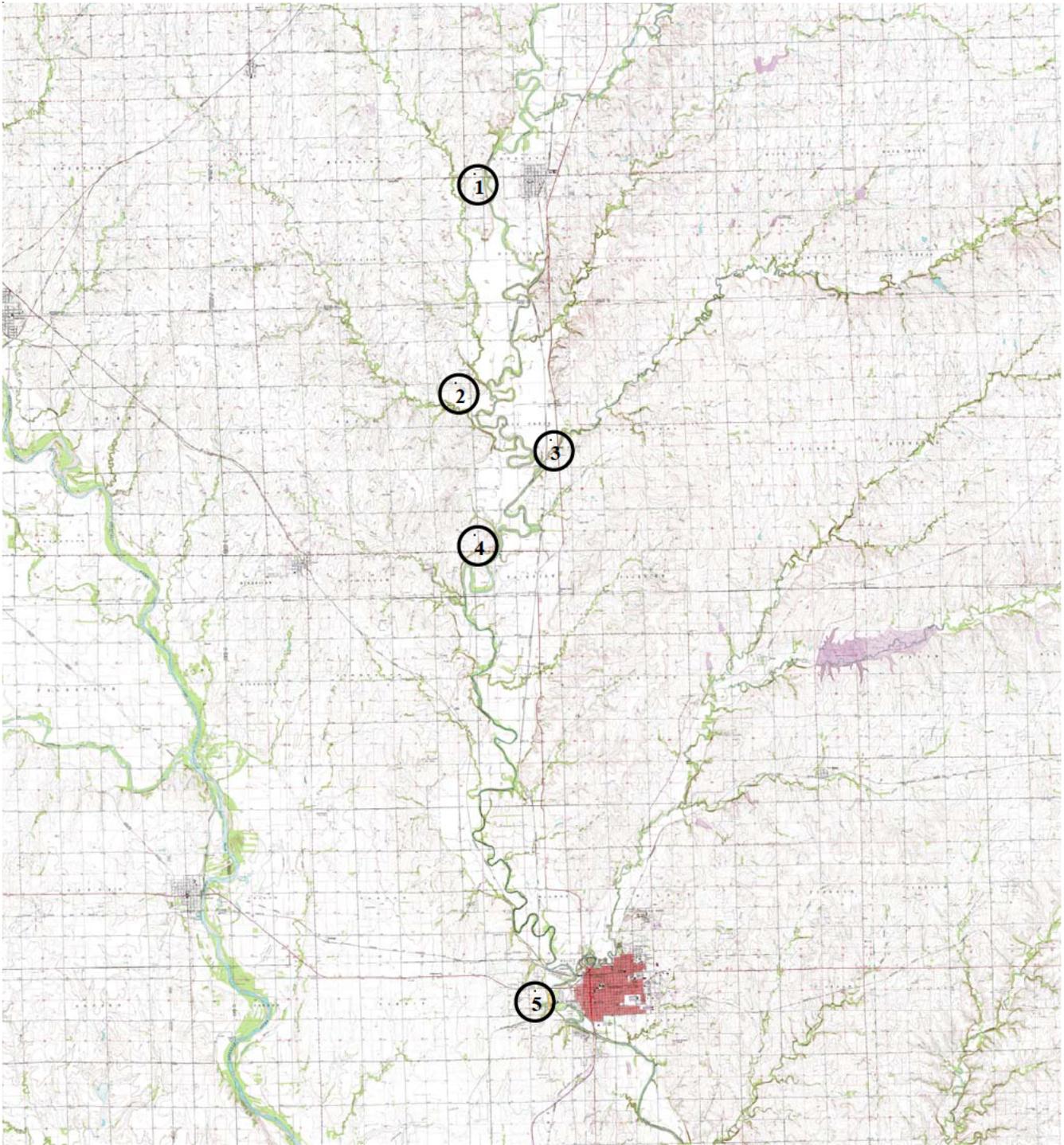
As the Walnut River is a recreation area, it would be considered an environmentally sensitive area. Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 6 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 6 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil at approximately 35.0 gravity, and considered to be a sweet crude oil.

Safety Data Sheets

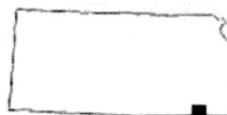
Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.



Reference

TopoZone.com Maps a la carte Inc.
Custom Map Created 10/27/05

● - Response Location



Quadrangle Location



Approximate
Scale in feet

Coffeyville Resources Crude Transportation, LLC
P.O. Box 3516
411 NE Washington Boulevard
Bartlesville, Oklahoma 74006
918-333-4111



Zone 6
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River		1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R			Potential Lake Access		
	OK	Washington	Caney River	Crosstimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R			Shoreline Access		
	OK	Washington	Caney River	Crosstimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R		275	Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominy Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominy Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneyshell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

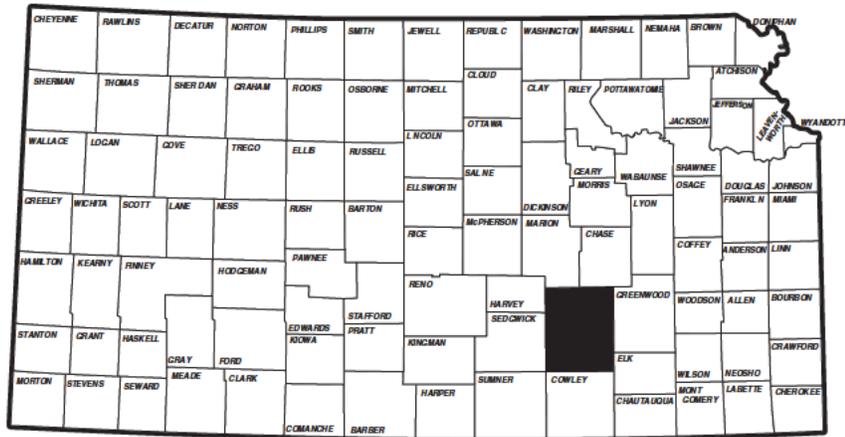
Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>					
Neosho	American Burying Beetle	E	E	N/A					
	Bald Eagle	T	T	7					
	Butterfly Mussel	T	N	7					
	Common Map Turtle	T	N	N/A					
	Eastern Spotted Skunk	T	N	N/A					
	Eskimo Curlew	E	E	N/A					
	Flat Floater Mussel	E	N	N/A					
	Flutedshell Mussel	T	N	7					
	Least Tern	E	E	N/A					
	Neosho Madtom	T	T	7					
	Neosho Mucket Mussel	E	N	7					
	Ouachita Kedneyshell Mussel	T	N	7					
	Peregrine Falcon	E	N	N/A					
	Piping Plover	T	T	N/A					
	Rabbitsfoot Mussel	E	N	7					
	Redspot Chub	T	N	N/A					
	Snowy Plover	T	N	N/A					
	Western Fanshell Mussel	E	N	N/A					
	Wilson	American Burying Beetle	E	E	7				
		Bald Eagle	T	T	N/A				
Butterfly Mussel		T	N	N/A					
Common Map Turtle		T	N	N/A					
Eastern Spotted Skunk		T	N	7					
Eskimo Curlew		E	E	N/A					
Flutedshell Mussel		T	N	N/A					
Least Tern		E	E	N/A					
Neosho Mucket Mussel		E	N	N/A					
Ouachita Kedneyshell Mussel		T	N	N/A					
Peregrine Falcon		E	N	N/A					
Piping Plover		T	T	N/A					
Rabbitsfoot Mussel		E	N	N/A					
Snowy Plover		T	N	N/A					
Western Fanshell Mussel		E	N	N/A					
<u>County in Oklahoma</u>		<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
	Nowata					Bald Eagle	AD, T	N/A	
						Neosho Mucket Mussel	E	4	
						Peregrine Falcon	DM	N/A	
						Piping Plover	E, T	4	
	Osage					Bald Eagle		AD, T	N/A
						Least Tern		E	N/A
						Neosho Mucket Mussel		E	8
						Peregrine Falcon		DM	N/A
						Piping Plover		E	8
	Whooping Crane						E, EXPN	8	
	Washington					Bald Eagle		AD, T	N/A
						Neosho Mucket Mussel		E	9
						Peregrine Falcon		DM	N/A
						Piping Plover		T	9
	Whooping Crane						E, EXPN	N/A	

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

BUTLER COUNTY

COUNTY LOCATOR MAP



STATUS KEY

- THR = Threatened
 END = Endangered
 SNC = Species In Need of Conservation
 CAN = Candidate Listing
 NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

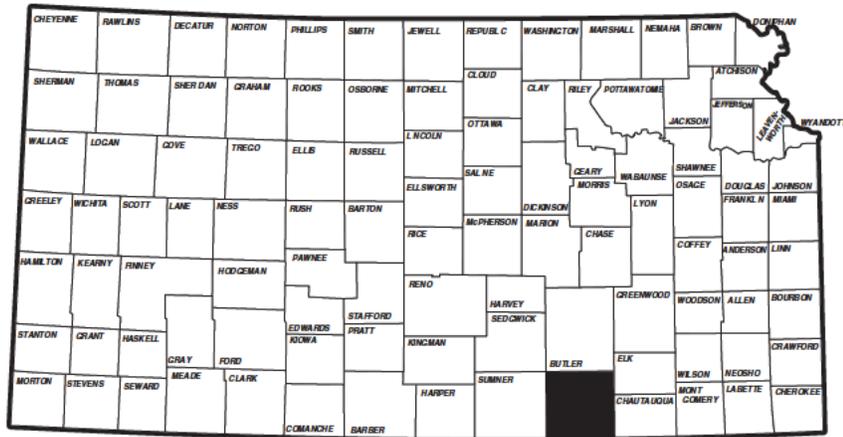
- American Burying Beetle** *Nicrophorus americanus*
 State: END Federal: END Critical Habitat: NO
- Bald Eagle** *Haliaeetus leucocephalus*
 State: THR Federal: THR Critical Habitat: YES
- Eastern Spotted Skunk** *Spilogale putorius*
 State: THR Federal: NA Critical Habitat: NO
- Eskimo Curlew** *Numenius borealis*
 State: END Federal: END Critical Habitat: NO
- Least Tern** *Sterna antillarum*
 State: END Federal: END Critical Habitat: NO
- Peregrine Falcon** *Falco peregrinus*
 State: END Federal: NA Critical Habitat: NO
- Piping Plover** *Charadrius melodus*
 State: THR Federal: THR Critical Habitat: NO
- Sharp Hornsnail** *Pleurocera acuta*
 State: THR Federal: NA Critical Habitat: NO
- Snowy Plover** *Charadrius alexandrinus*
 State: THR Federal: NA Critical Habitat: NO
- Topeka Shiner** *Notropis topeka*
 State: THR Federal: END Critical Habitat: YES
- Whooping Crane** *Grus americana*
 State: END Federal: END Critical Habitat: NO

SPECIES IN NEED OF CONSERVATION (SINC)

- Black Tern** *Chlidonias niger*
 State: SNC Federal: NA Critical Habitat: NA
- Yellow-throated Warbler** *Dendroica dominica*
 State: SNC Federal: NA Critical Habitat: NA
- Creeper Mussel** *Strophitus undulatus*
 State: SNC Federal: NA Critical Habitat: NA
- Ferruginous Hawk** *Buteo regalis*
 State: SNC Federal: NA Critical Habitat: NA
- Golden Eagle** *Aquila chrysaetos*
 State: SNC Federal: NA Critical Habitat: NA
- Henslow's Sparrow** *Ammodramus henslowii*
 State: SNC Federal: NA Critical Habitat: NA
- Short-eared Owl** *Asio flammeus*
 State: SNC Federal: NA Critical Habitat: NA
- Spotted Sucker** *Minytrema melanops*
 State: SNC Federal: NA Critical Habitat: NA
- Whip-poor-will** *Camprimulgus vociferus*
 State: SNC Federal: NA Critical Habitat: NA

COWLEY COUNTY

COUNTY LOCATOR MAP



STATUS KEY

- THR = Threatened
 END = Endangered
 SNC = Species In Need of Conservation
 CAN = Candidate Listing
 NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

- American Burying Beetle** *Nicrophorus americanus*
 State: END Federal: END Critical Habitat: NO
- Arkansas Darter** *Etheostoma cragini*
 State: THR Federal: CAN Critical Habitat: YES
- Arkansas River Shiner** *Notropis girardi*
 State: END Federal: THR Critical Habitat: YES
- Arkansas River Speckled Chub** *Macrhybopsis tetramema*
 State: END Federal: NA Critical Habitat: YES
- Bald Eagle** *Haliaeetus leucocephalus*
 State: THR Federal: THR Critical Habitat: YES
- Eastern Spotted Skunk** *Spilogale putorius*
 State: THR Federal: NA Critical Habitat: NO
- Eskimo Curlew** *Numenius borealis*
 State: END Federal: END Critical Habitat: NO
- Least Tern** *Sterna antillarum*
 State: END Federal: END Critical Habitat: NO
- Peregrine Falcon** *Falco peregrinus*
 State: END Federal: NA Critical Habitat: NO
- Piping Plover** *Charadrius melodus*
 State: THR Federal: THR Critical Habitat: NO
- Silver Chub** *Macrhybopsis storeriana*
 State: END Federal: NA Critical Habitat: YES
- Snowy Plover** *Charadrius alexandrinus*
 State: THR Federal: NA Critical Habitat: NO
- Topeka Shiner** *Notropis topeka*
 State: THR Federal: END Critical Habitat: NO
- Whooping Crane** *Grus americana*
 State: END Federal: END Critical Habitat: NO

SPECIES IN NEED OF CONSERVATION (SINC)

- Black Tern** *Chlidonias niger*
 State: SNC Federal: NA Critical Habitat: NA
- Bobolink** *Dolichonyx oryzivorus*
 State: SNC Federal: NA Critical Habitat: NA
- Brindled Madtom** *Noturus miurus*
 State: SNC Federal: NA Critical Habitat: NA
- Cerulean Warbler** *Dendroica cerulea*
 State: SNC Federal: NA Critical Habitat: NA
- Creeper Mussel** *Strophitus undulatus*
 State: SNC Federal: NA Critical Habitat: NA
- Curve-Billed Thrasher** *Toxostoma curvirostre*
 State: SNC Federal: NA Critical Habitat: NA
- Eastern Hognose Snake** *Heterodon platirhinos*
 State: SNC Federal: NA Critical Habitat: NA
- Fat Mucket Mussel** *Lampsilis radiata*
 State: SNC Federal: NA Critical Habitat: NA
- Ferruginous Hawk** *Buteo regalis*
 State: SNC Federal: NA Critical Habitat: NA
- Golden Eagle** *Aquila chrysaetos*
 State: SNC Federal: NA Critical Habitat: NA
- Plains Minnow** *Hybognathus placitus*
 State: SNC Federal: NA Critical Habitat: NA
- River Shiner** *Notropis blenniuis*
 State: SNC Federal: NA Critical Habitat: NA
- Short-eared Owl** *Asio flammeus*
 State: SNC Federal: NA Critical Habitat: NA
- Spotted Sucker** *Minytrema melanops*
 State: SNC Federal: NA Critical Habitat: NA
- Texas Mouse** *Peromyscus atwaterii*
 State: SNC Federal: NA Critical Habitat: NA
- Wabash Pigtoe Mussel** *Fusconaia flava*
 State: SNC Federal: NA Critical Habitat: NA
- Western Hognose Snake** *Heterodon nasicus*
 State: SNC Federal: NA Critical Habitat: NA
- Whip-poor-will** *Camprimulgus vociferus*
 State: SNC Federal: NA Critical Habitat: NA
- Yellow Sandshell Mussel** *Lampsilis teres*
 State: SNC Federal: NA Critical Habitat: NA

Table 4-1-B
 Zone 6
 Effective Daily Recovery Capacity Evaluation
 Coffeyville Resources Crude Transportation, LLC.
 Bartlesville Facility Response Plan
 Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25	(F),		43						
CRCT-Plainville Station	Skimmer	1	(b) (3)								
CRCT-Winfield Office	Vacuum Truck	1		300							
CRCT-Winfield Office	Transport with pump	25									
CRCT-Winfield Office	Skimmer	1			28						
CRCT-Bartlesville Station	Vacuum Truck	4		300							
CRCT-Bartlesville Station	Transport with pump	25									
CRCT-Bartlesville Station	Skimmer	1			50						
CRCT (all stations)	Skimmer	1			71.5						
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Herfel - Hays, KS	Vacuum Truck	1	(b)	300		(b) (7)(F), (b) (3)					
Herfel - Hays, KS	Skimmer	1	(7)		25						
ACME - Tulsa, OK	Skimmer	4	(F),		80						
Veolia - Kansas City, MO	Vacuum Truck	6	(b)	300							
Veolia - Kansas City, MO	Skimmer	1			80						
A Clean Environment - Tulsa, OK	Skimmer	6			245						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- a) EDRC Effective Daily Recovery Capacity.
- CRCT Coffeyville Resources Crude Transportation, LLC.
- CRT Coffeyville Resources Terminal, LLC.
- bpd barrels per day.
- bph barrels per hour.
- hr. hour.
- b) Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
- Herfel Herfel Tank Service, Inc., Hays, KS.
- ACME ACME Environmental Spill Response Resources, Tulsa, OK.
- Veolia Veolia Environmental Services, Kansas City, MO.
- A Clean Environment, Tulsa, OK.
- c) Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
- d) Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
- e) Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- f) Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- g) Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Fu I quantity identified available for Tier 3 Response.
- h) Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 - R D x U, where
 - R—Effective daily recovery capacity;
 - D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 - U—Hours per day that equipment can operate under discharge conditions.
- i) CRT can sustain recovery operations for 12 hours per day.
- j) Summation of skimmer rate (bpd) based on R D x U.
- k) Summation of vacuum truck rate (bpd) based on R D x U.
- l) Summation of transport rate based on R D x U. Assumes 6 hrs for travel, load, and unload.
- m) Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC:	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E:			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP:			
CRCT Contracted and Identified EDRC above CAP:			
EDRC Required Per 40CFR 112.20 Appendix E (i):			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E:			
EDRC Requirement Evaluation:	MET	MET	MET

Zone 6 Worksheet
 Effective Daily Recovery Capacity Evaluation
 Coffeyville Resources Crude Transportation, LLC.
 Bartlesville Facility Response Plan
 Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		(b) (7)(F), (b) (3)
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol
	 2* 3 0		

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1588
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
-----------------	--

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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil, 3, UN1267, PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL, 3, UN1267, PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto, 3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

WPS-CF-002 - Crude Oil

Revision Date January 2007

15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

WPS-CF-002 - Crude Oil

Revision Date January 2007

Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

WPS-CF-002 - Crude Oil

Revision Date January 2007

16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
\$5,000,000.00 each occurrence.
\$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
Statutory Limits.
- E. Professional Liability:
\$2,000,000.00 per loss.
\$2,000,000 annual aggregate.
- F. Pollution Liability:
\$1,000,000.00 per loss.
\$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

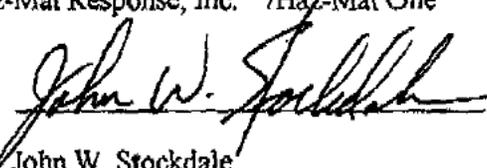
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-782-6206

Fax #: 913-905-0290

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

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and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

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3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

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- E. Professional Liability:
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- F. Pollution Liability:
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\$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

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18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

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20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

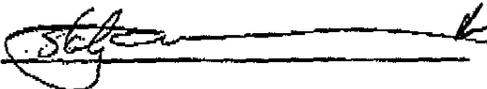
or at such other address as either shall have designated by notice to the other party.

22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

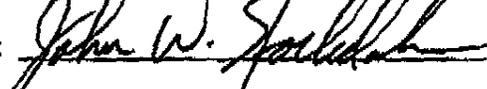
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

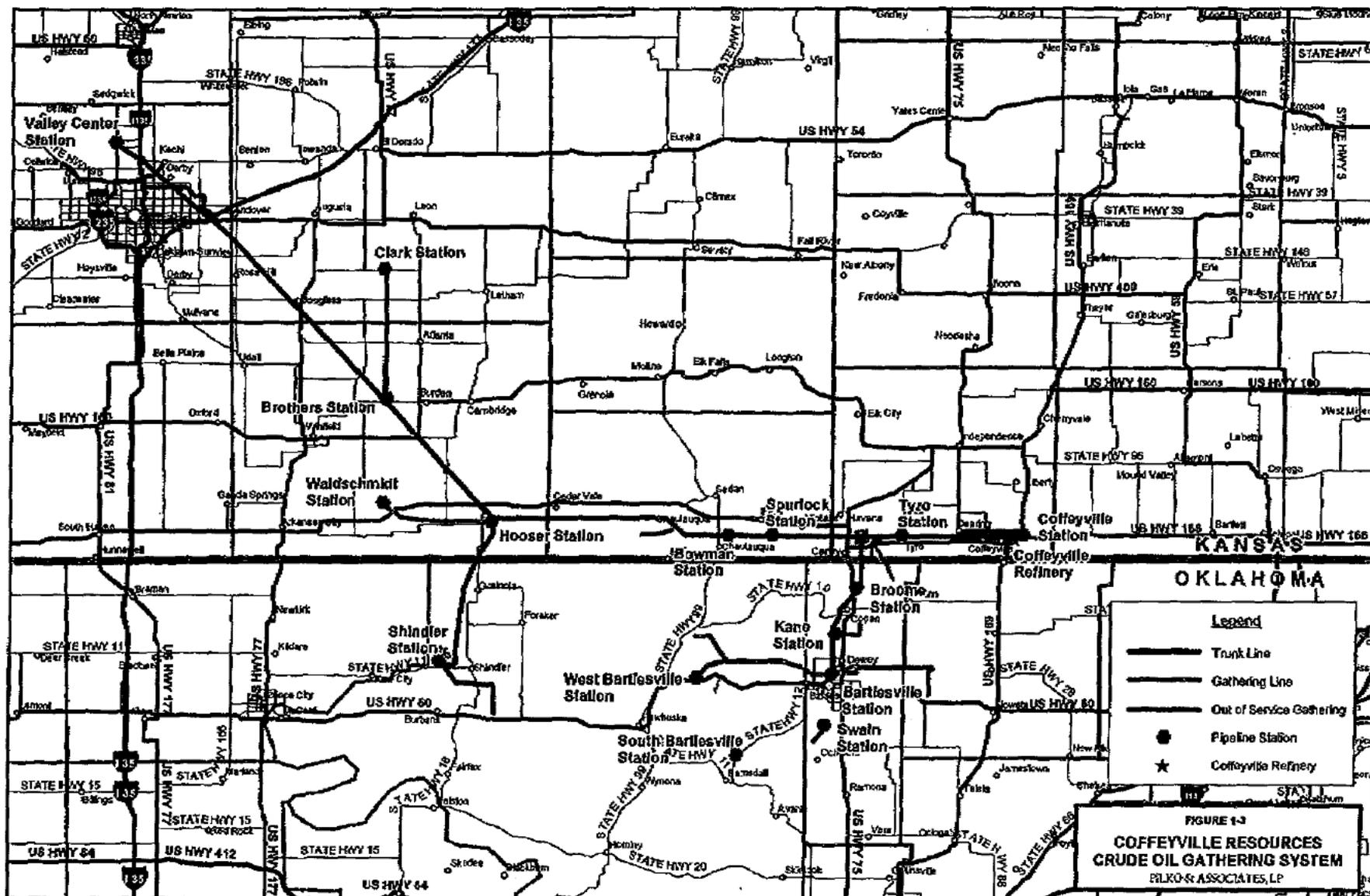
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A

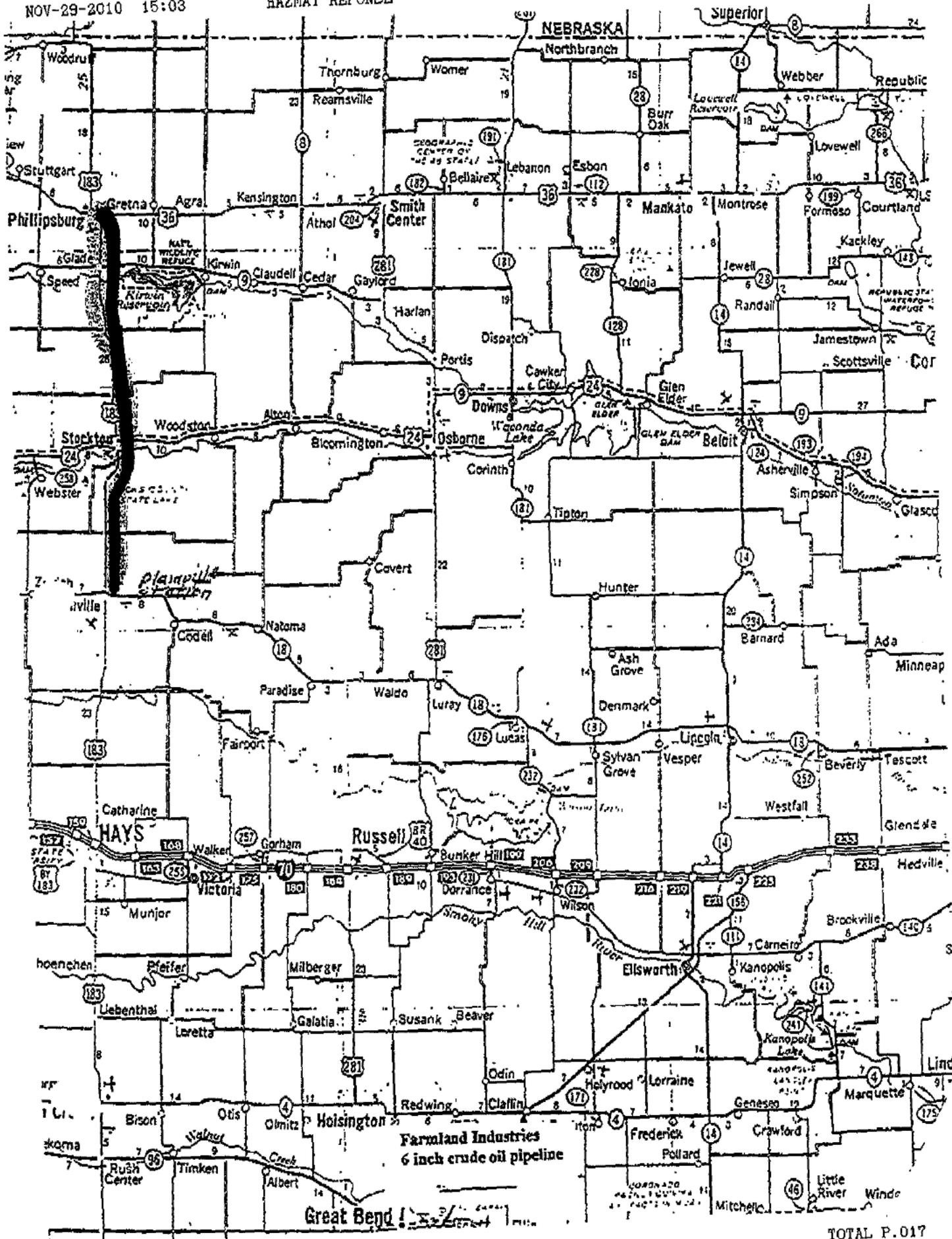


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HAZMAT REPOSENSE



Response Zone # 7 Appendix

Response Zone # 7 Description

The pipeline in this response zone consists of a 8-inch crude oil pipeline known as the Humboldt Station to Caney Junction 8-inch pipeline. This pipeline is in a right-of-way corridor with three or four other pipelines operated by Magellan Pipeline Company.

This pipeline crosses various rivers and Creeks 14 times between Humboldt Station and Broome Station including Slack Creek, Turkey Creek (four locations), the Neosho River, Chetopa Creek, Little Chetopa Creek, Dry Creek, Salt Creek, Prior Creek, the Verdigris River, the Elk River, and Onion Creek.

Summary of 14 Water Crossings for Response Zone #7

Slack Creek	T-26S	R-19E	SE Section 9
Turkey Creek	T-27S	R-18E	NE Section 26
Neosho River	T-27S	R-18E	SW Section 26
Turkey Creek	T-27S	R-18E	NE Section 34
Turkey Creek	T-28S	R-18E	NE Section 9
Turkey Creek	T-28S	R-17E	NE Section 17
Chetopa Creek	T-29S	R-17E	NW Section 11
Little Chetopa Creek	T-29S	R-17E	NW Section 33
Dry Creek	T-30S	R-16E	NE Section 25
Salt Creek	T-31S	R-16E	SW Section 2
Prior Creek	T-31S	R-16E	SW Section 15
Verdigris River	T-31S	R-16E	SE Section 32
Elk River	T-32S	R-16E	NW Section 18
Onion Creek	T-33S	R-14E	SE Section 30

The location of the Humboldt Station to Broome Station 8-inch pipeline section which could affect this zone is from the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 9, T-26S, R-19E extending southwest to NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 4, T-35S, R-14E.

This is the only pipeline section which would affect this response zone.

Response Zone # 7 Location

This zone starts approximately six miles east of Humboldt, Kansas, and extends southwest approximately 63 miles, to three miles east of Caney, Kansas (see map at the end of the Zone 7 tab).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water and a state recreation area (see Table 1 in Section 9).

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house

or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman	(918) 333-4111 (Ext. 5014)		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.

- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body or water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Allen, Montgomery, Neosho, or Wilson County, Kansas, contact the Chanute office at (620) 431-2390.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is (785) 296-1679. The regular call to the Chanute office should also be made the next business day.

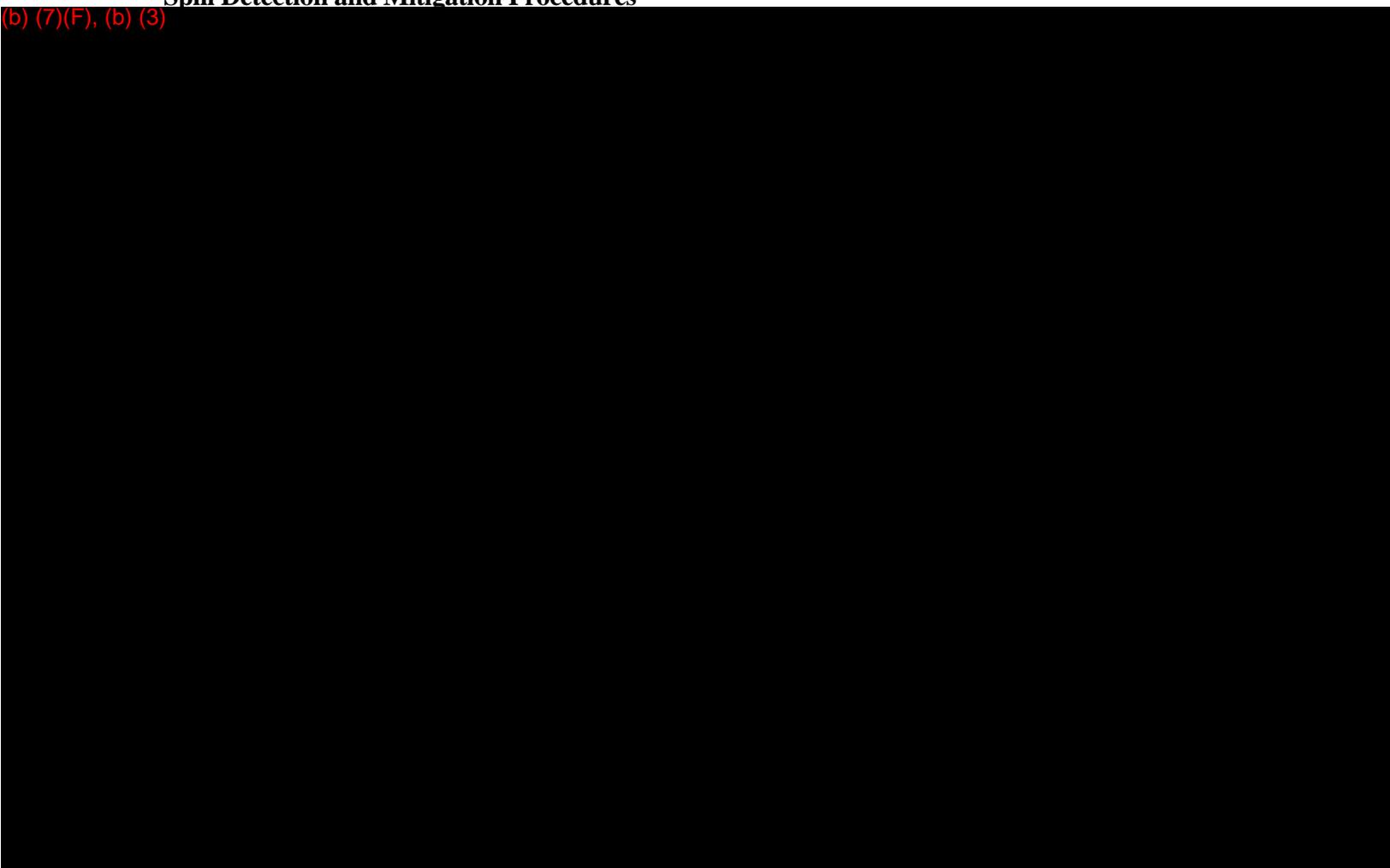
Persons reporting a discharge should have the following information available:

- Name of pipeline
- Type of oil released
- Time of discharge
- Reason for discharge

-
- Location of spill (legal description)
 - Estimated oil loss
 - What response equipment will be required
 - Weather conditions at the scene
 - Nature of damage
 - Status of containment
 - Plans for handling the spill
 - Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)



Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations: If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as booms and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been

made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35

- bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 7, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 7 Tab. It is estimated that the

Bartlesville and Winfield pipeline owned equipment can be on the scene of any crude oil spill within three hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 10 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Montgomery County)	(620) 431-2390

(Allen County)	(620) 431-2390
(Neosho County)	(620) 431-2390
(Wilson County)	(620) 431-2390
(Topeka 24-hr number)	(785) 296-1679
Montgomery County Sheriff	(620) 330-1260
Allen County Sheriff	(316) 365-1400
Neosho County Sheriff	(620) 244-3888
Wilson County Sheriff	(620) 378-3622
Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Montgomery Co. Fire, Police, Ambulance	911
Local Emergency Planning Committee	
(Montgomery County)	(620) 330-1260
(Allen County)	(620) 365-1400
(Neosho County)	(620) 244-3888
(Wilson County)	(620) 378-4455
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233
Montgomery Co. Fire, Police, Ambulance	911
Allen Co. Fire, Ambulance	911
Neosho Co. Fire, Ambulance	911
Wilson Co. Fire, Ambulance	911

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR

- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

(b) (3), (b) (7)(F)

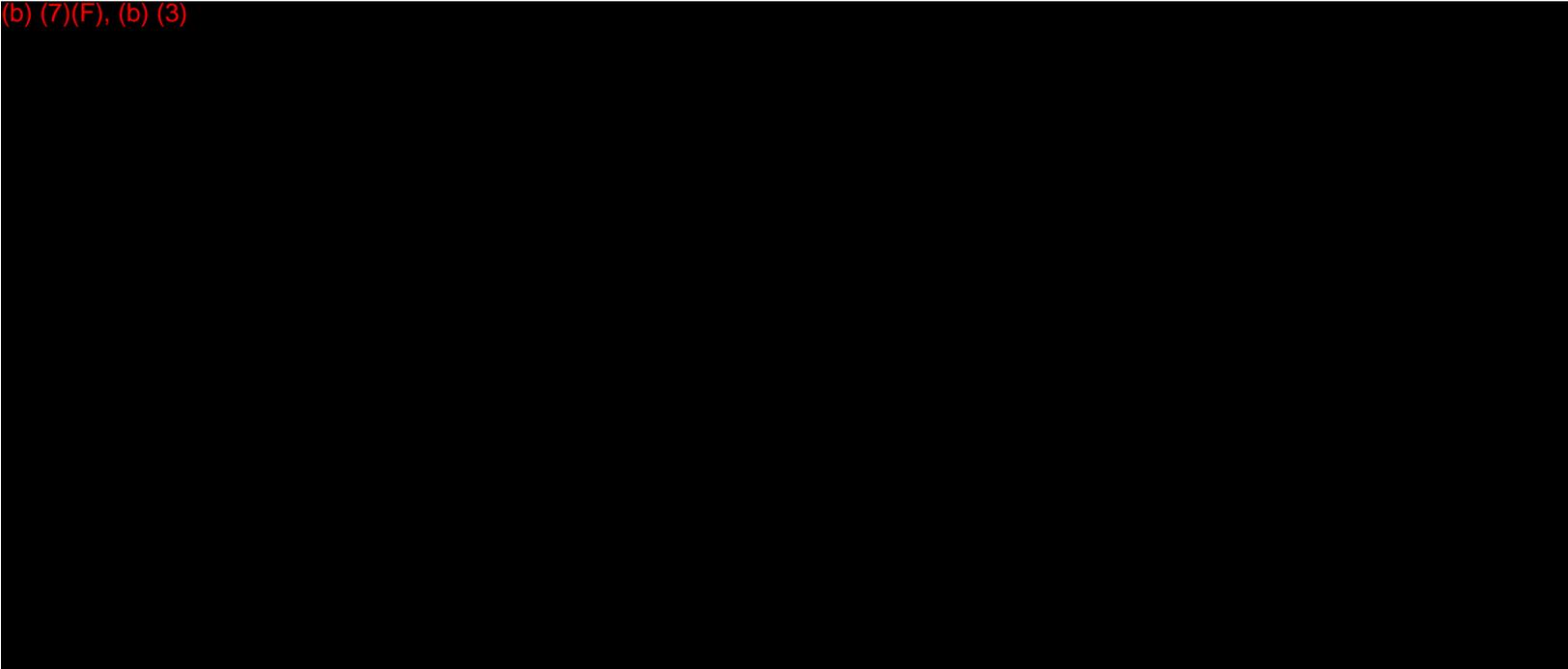
. Worst case discharge
estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)

Potentially Affected Public Drinking Water Intake, Lake, River, and Stream Within a Five Mile Radius of Line Section

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)

**Environmentally Sensitive Area Within a One Mile Radius of The Line Section.**

As the Elk, Neosho, and Verdigris Rivers and their tributary waterways that feed them are recreation areas, they would be considered environmentally sensitive areas.

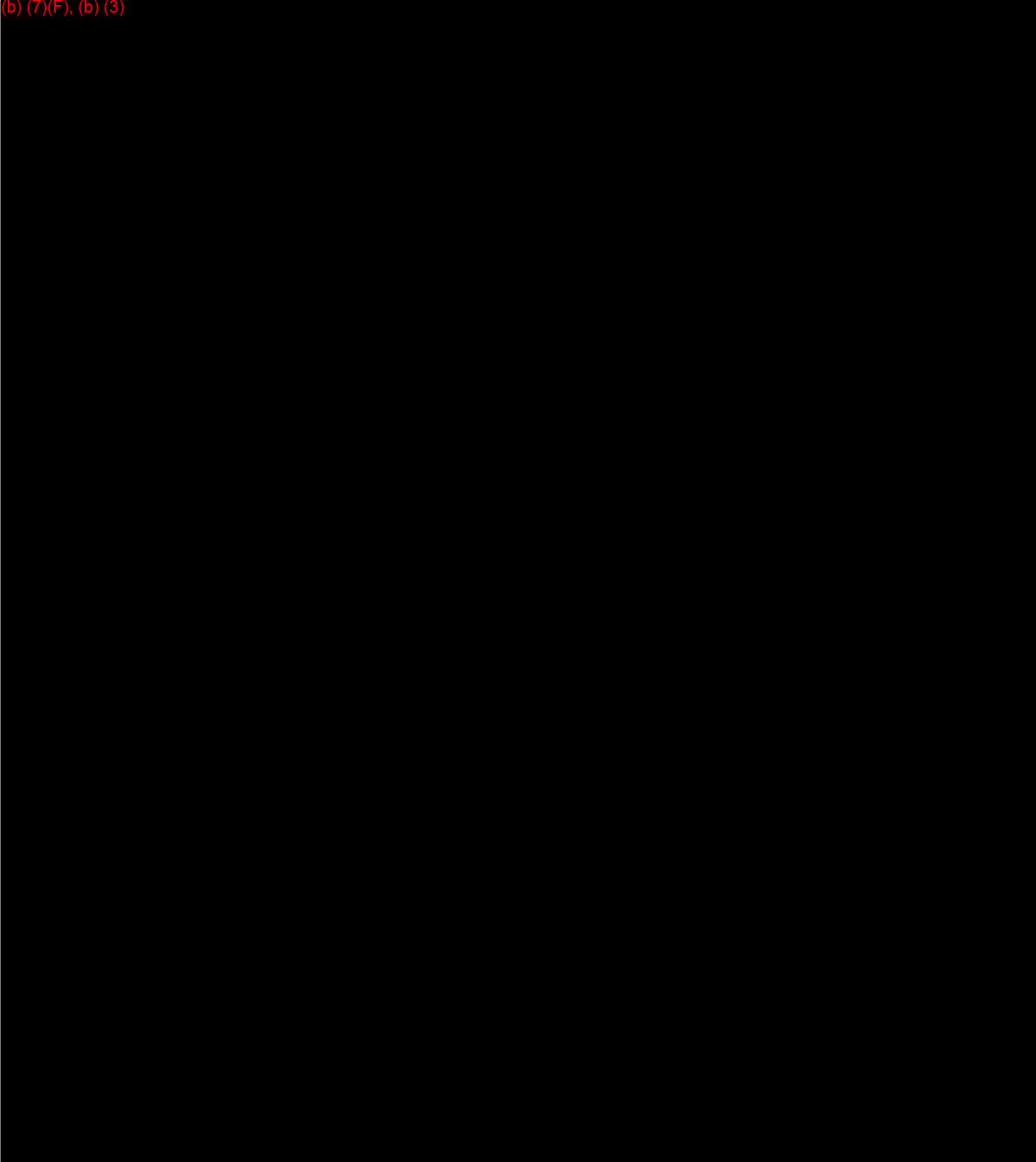
Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 7 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 7 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.



Coffeyville Resources Crude Transportation, LLC

P.O. Box 3516

411 NE Washington Boulevard

Bartlesville, Oklahoma 74006

918-333-4111



Zone 7

Coffeyville Resources Crude Transportation, LLC

Bartlesville, Oklahoma

ZONE 7

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River		2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake		1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R			Potential Lake Access		
	OK	Washington	Caney River	Crosstimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R			Shoreline Access		
	OK	Washington	Caney River	Crosstimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R		275	Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominy Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominy Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneysell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneysell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneysell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

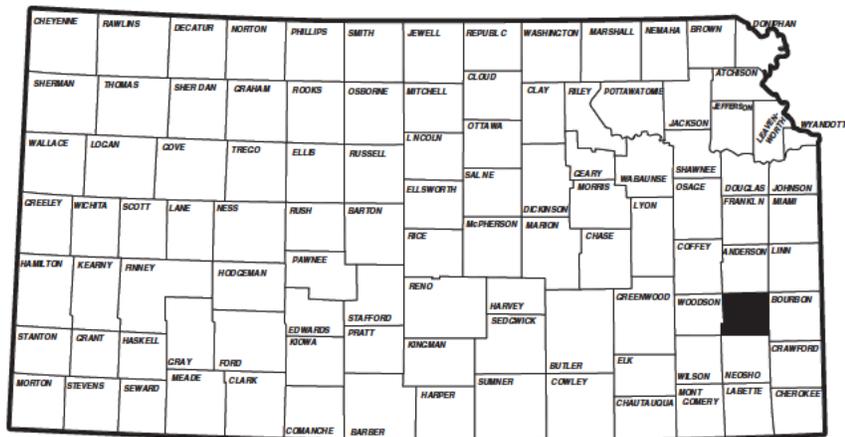
Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
Neosho	American Burying Beetle	E	E	N/A				
	Bald Eagle	T	T	7				
	Butterfly Mussel	T	N	7				
	Common Map Turtle	T	N	N/A				
	Eastern Spotted Skunk	T	N	N/A				
	Eskimo Curlew	E	E	N/A				
	Flat Floater Mussel	E	N	N/A				
	Flutedshell Mussel	T	N	7				
	Least Tern	E	E	N/A				
	Neosho Madtom	T	T	7				
	Neosho Mucket Mussel	E	N	7				
	Ouachita Kedneyshell Mussel	T	N	7				
	Peregrine Falcon	E	N	N/A				
	Piping Plover	T	T	N/A				
	Rabbitsfoot Mussel	E	N	7				
	Redspot Chub	T	N	N/A				
	Snowy Plover	T	N	N/A				
	Western Fanshell Mussel	E	N	N/A				
	Wilson	American Burying Beetle	E	E	7			
		Bald Eagle	T	T	N/A			
Butterfly Mussel		T	N	N/A				
Common Map Turtle		T	N	N/A				
Eastern Spotted Skunk		T	N	7				
Eskimo Curlew		E	E	N/A				
Flutedshell Mussel		T	N	N/A				
Least Tern		E	E	N/A				
Neosho Mucket Mussel		E	N	N/A				
Ouachita Kedneyshell Mussel		T	N	N/A				
Peregrine Falcon		E	N	N/A				
Piping Plover		T	T	N/A				
Rabbitsfoot Mussel		E	N	N/A				
Snowy Plover		T	N	N/A				
Western Fanshell Mussel		E	N	N/A				
<u>County in Oklahoma</u>		Nowata	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>		
	Bald Eagle						AD, T	N/A
	Neosho Mucket Mussel						E	4
	Peregrine Falcon						DM	N/A
	Piping Plover	E, T	4					
	Osage	Bald Eagle		AD, T	N/A			
		Least Tern		E	N/A			
		Neosho Mucket Mussel		E	8			
		Peregrine Falcon		DM	N/A			
		Piping Plover		E	8			
	Whooping Crane		E, EXPN	8				
	Washington	Bald Eagle		AD, T	N/A			
		Neosho Mucket Mussel		E	9			
		Peregrine Falcon		DM	N/A			
		Piping Plover		T	9			
	Whooping Crane		E, EXPN	N/A				

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

ALLEN COUNTY

COUNTY LOCATOR MAP



STATUS KEY

THR = Threatened

END = Endangered

SNC = Species In Need of Conservation

CAN = Candidate Listing

NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

American Burying Beetle *Nicrophorus americanus*
State: END Federal: END Critical Habitat: NO

Bald Eagle *Haliaeetus leucocephalus*
State: THR Federal: THR Critical Habitat: NO

Butterfly Mussel *Ellipsaria lineolata*
State: THR Federal: NA Critical Habitat: YES

Common Map Turtle *Graptemys geographica*
State: THR Federal: NA Critical Habitat: YES

Eastern Spotted Skunk *Spilogale putorius*
State: THR Federal: NA Critical Habitat: NO

Eskimo Curlew *Numenius borealis*
State: END Federal: END Critical Habitat: NO

Flat Floater Mussel *Anadonta suborbiculata*
State: END Federal: NA Critical Habitat: YES

Flutedshell Mussel *Lasmigona costata*
State: THR Federal: NA Critical Habitat: YES

Neosho Madtom *Noturus placidus*
State: THR Federal: THR Critical Habitat: YES

Neosho Mucket Mussel *Lampsilis rafinesqueana*
State: END Federal: NA Critical Habitat: YES

Ouachita Kidneyshell Mussel *Pychobranchus occidentalis*
State: THR Federal: NA Critical Habitat: YES

Peregrine Falcon *Falco peregrinus*
State: END Federal: END Critical Habitat: NO

Piping Plover *Charadrius melodus*
State: THR Federal: THR Critical Habitat: NO

Rabbitsfoot Mussel *Quadrula cylindrica*
State: END Federal: NA Critical Habitat: YES

Redspot Chub *Nocomis asper*
State: THR Federal: NA Critical Habitat: NO

Snowy Plover *Charadrius alexandrinus*
State: THR Federal: NA Critical Habitat: NO

Western Fanshell Mussel *Cyprogenia aberti*
State: END Federal: NA Critical Habitat: NO

SPECIES IN NEED OF CONSERVATION (SINC)

Black Tern *Chlidonias niger*
State: SNC Federal: NA Critical Habitat: NA

Bluntnose Darter *Etheostoma chlorosoma*
State: SNC Federal: NA Critical Habitat: NA

Crawfish Frog *Rana areolata*
State: SNC Federal: NA Critical Habitat: NA

Creeper Mussel *Strophitus undulatus*
State: SNC Federal: NA Critical Habitat: NA

Eastern Hognose Snake *Heterodon platirhinos*
State: SNC Federal: NA Critical Habitat: NA

Fawnsfoot Mussel *Truncilla donaciformis*
State: SNC Federal: NA Critical Habitat: NA

Fanklin's Ground Squirrel *Spermophilus franklinii*
State: SNC Federal: NA Critical Habitat: NA

Gravel Chub *Erimystax x-punctatus*
State: SNC Federal: NA Critical Habitat: NA

Prairie Mole Cricket *Gryllotalpa major*
State: SNC Federal: NA Critical Habitat: NA

Round Pigtoe Mussel *Pleurobema coccineum*
State: SNC Federal: NA Critical Habitat: NA

Short-eared Owl *Asio flammeus*
State: SNC Federal: NA Critical Habitat: NA

Spike Mussel *Elliptio dilatata*
State: SNC Federal: NA Critical Habitat: NA

Spotted Sucker *Minytrema melanops*
State: SNC Federal: NA Critical Habitat: NA

Wabash Pigtoe Mussel *Fusconaia flava*
State: SNC Federal: NA Critical Habitat: NA

Wartyback Mussel *Quadrula nodulata*
State: SNC Federal: NA Critical Habitat: NA

Washboard Mussel *Megaloniais nervosa*
State: SNC Federal: NA Critical Habitat: NA

Whip-poor-will *Camprimulgus vociferus*
State: SNC Federal: NA Critical Habitat: NA



Species In Need of Conservation Known or Likely to Occur in Montgomery County, Kansas

Alligator Snapping Turtle - *Macrolemys temminckii* (Troost)

Black Tern - *Chlidonias niger* (Linnaeus)

Cerulean Warbler - *Dendroica cerulea* (Wilson)

Creeper Mussel - *Strophitus undulatus* (Say)

Deertoe Mussel - *Truncilla truncata* (Rafinesque)

Eastern Chipmunk - *Tamias striatus* (Linnaeus)

Eastern Hognose Snake - *Heterodon platirhinos* (Latreille)

Fawnsfoot Mussel - *Truncilla donaciformis* (Lea)

Ferruginous Hawk - *Buteo regalis* (Gray)

Glossy Snake - *Arizona elegans* (Kennicott)

Highfin Carpsucker - *Carpionodes velifer* (Rafinesque)

Prairie Mole Cricket - *Gryllotalpa major* (Sauss)

Reg-Shouldered Hawk - *Buteo lineatus* (Gmelin)

River Redhorse - *Moxostoma carinatum* (Cope)

Round Pigtoe Mussel - *Pleurobema coccineum* (Conrad)

Short-Eared Owl - *Asio flammeus* (Pontoppidan)

Slough Darter - *Etheostoma gracile* (Girard)

Wabash Pigtoe Mussel - *Fusconaia flava* (Rafinesque)

(Continued)

Montgomery County, Kansas (cont.)

Wartyback Mussel - *Quadrula nodulata* (Rafinesque)

Washboard Mussel - *Megalonaias nervosa* (Rafinesque)

Yellow Sandshell Mussel - *Lampsilis teres* (Rafinesque)



**THREATENED AND ENDANGERED SPECIES
KNOWN OR LIKELY TO OCCUR
IN
MONTGOMERY COUNTY, KANSAS**

American Burying Beetle (*Nicrophorus americanus*) - Endangered: Known to occur in suitable habitat. Prefers loose sandy/clay loam soils in grasslands and along upland woodland edges. *Critical habitat has been designated.* Endangered nationally.

Bald Eagle (*Haliaeetus leucocephalus*) - Threatened: Known to occur as a regular seasonal transient or winter resident. *Critical habitat has been designated.* Threatened nationally.

Butterfly Mussel (*Ellipsaria lineolata*) - Threatened: An obligate riverine mussel preferring clean water with good current over gravel substrate. Currently has been documented in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

Common Map Turtle (*Graptemys geographica*) - Threatened: Semi-aquatic in nature, this turtle may occur in large streams, lakes and oxbows having abundant basking sites, slow to moderate current, soft substrate with much aquatic vegetation, and tree-lined banks. Historically occurred throughout eastern Kansas south of the Kansas River and east of the Flint Hills.

Eastern Spotted Skunk (*Spilogale putorius interrupta*) - Threatened: Known to occur near woodland edges in grasslands with shrub clumps or rock outcrops, and in abandoned farmsteads where old buildings or debris piles provide cover. *Critical habitat has been designated.*

Eskimo Curlew (*Numenius borealis*) - Endangered: Formerly a regular spring migrant using plowed fields, heavily grazed and burned grasslands. Was most common in the eastern 2/3 of the state, but has not been verified in Kansas since 1902. A few birds may still migrate through the state. Endangered nationally.

Flutedshell Mussel (*Lasmigona costata*) - Threatened: An obligate riverine mussel dependent upon clean riffles comprised of small to medium size gravel with clean water having moderate current.

Least Tern (*Sterna antillarum*) - Endangered: Known to occur as an uncommon seasonal transient or summer visitant. Endangered nationally.

Neosho Mucket Mussel (*Lampsilis rafinesqueana*) - Endangered: An obligate riverine mussel preferring shallow clean-flowing water over a substrate of fine to medium size gravel. Currently known in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

(continued)

Montgomery Co. Threatened & Endangered Species - Page 2

Ouachita Kidneyshell Mussel (*Ptychobranhus occidentalis*) - Threatened: An obligate riverine mussel requiring clean-flowing water over gravel substrate. Known to occur at much reduced numbers in main stems and major tributaries of the Verdigris River. ***Critical habitat has been designated.***

Peregrine Falcon (*Falco peregrinus*) - Endangered: May occur as an uncommon seasonal transient or winter visitant. Prefers areas with large concentrations of waterfowl.

Piping Plover (*Charadrius melodus*) - Threatened: May occur as a rare seasonal transient at sparsely vegetated shorelines of stream, marshes, or impoundments. Threatened nationally.

Rabbitsfoot Mussel (*Quadrula cylindrica cylindrica*) - Endangered: A riverine mussel requiring clear streams with sandy gravel substrates and moderate currents. Currently known in the Verdigris River. ***Critical habitat has been designated.***

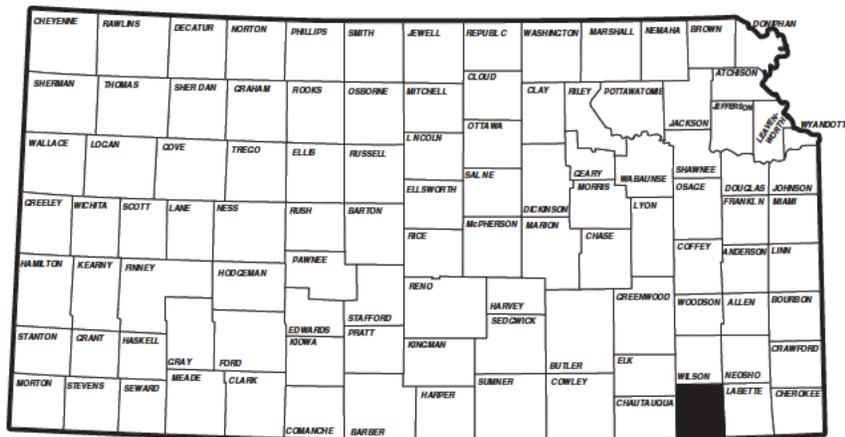
Snowy Plover (*Charadrius alexandrinus*) - Threatened: May occur as an occasional seasonal transient and summer visitant at sparsely vegetated wetlands and impoundment shorelines.

Western Fanshell Mussel (*Cyprogenia aberti*) - Endangered: An obligate riverine mussel found in mud, sand, gravel, and cobble substrate, generally associated with riffles with less than three feet of water depth. Only scattered individuals have been recently documented in the Verdigris River. ***Critical habitat has been designated.***

White-faced Ibis (*Plegadis chihi*) - Threatened: May occur as an occasional seasonal or summer visitant at wetlands and impoundments.

MONTGOMERY COUNTY

COUNTY LOCATOR MAP



STATUS KEY

- THR = Threatened
 END = Endangered
 SNC = Species In Need of Conservation
 CAN = Candidate Listing
 NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

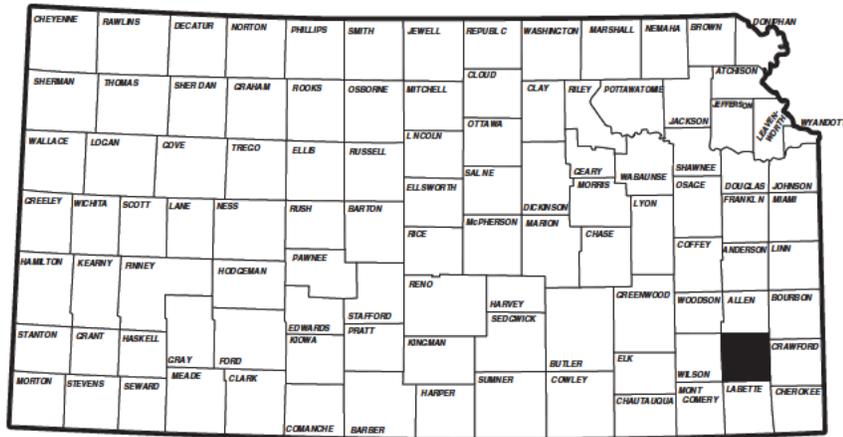
- | | |
|---|--|
| American Burying Beetle <i>Nicrophorus americanus</i>
State: END Federal: END Critical Habitat: YES | Neosho Mucket Mussel <i>Lampsilis rafinesqueana</i>
State: END Federal: NA Critical Habitat: YES |
| Bald Eagle <i>Haliaeetus leucocephalus</i>
State: THR Federal: THR Critical Habitat: YES | Ouachita Kidneyshell Mussel <i>Pychobranchus occidentalis</i>
State: THR Federal: NA Critical Habitat: YES |
| Butterfly Mussel <i>Ellipsaria lineolata</i>
State: THR Federal: NA Critical Habitat: YES | Peregrine Falcon <i>Falco peregrinus</i>
State: END Federal: NA Critical Habitat: NO |
| Common Map Turtle <i>Graptemys geographica</i>
State: THR Federal: NA Critical Habitat: NO | Piping Plover <i>Charadrius melodus</i>
State: THR Federal: THR Critical Habitat: NO |
| Eastern Spotted Skunk <i>Spilogale putorius</i>
State: THR Federal: NA Critical Habitat: YES | Rabbitsfoot Mussel <i>Quadrula cylindrica</i>
State: END Federal: NA Critical Habitat: YES |
| Eskimo Curlew <i>Numenius borealis</i>
State: END Federal: END Critical Habitat: NO | Snowy Plover <i>Charadrius alexandrinus</i>
State: THR Federal: NA Critical Habitat: NO |
| Flutedshell Mussel <i>Lasmigona costata</i>
State: THR Federal: NA Critical Habitat: NO | Western Fanshell Mussel <i>Cyprogenia aberti</i>
State: END Federal: NA Critical Habitat: YES |
| Least Tern <i>Sterna antillarum</i>
State: END Federal: END Critical Habitat: NO | |

SPECIES IN NEED OF CONSERVATION (SINC)

- | | | |
|---|---|--|
| Alligator Snapping Turtle <i>Macrochelys temminckii</i>
State: SNC Federal: NA Critical Habitat: NA | Ferruginous Hawk <i>Buteo regalis</i>
State: SNC Federal: NA Critical Habitat: NA | Slough Darter <i>Etheostoma gracile</i>
State: SNC Federal: NA Critical Habitat: NA |
| Black Tern <i>Chlidonias niger</i>
State: SNC Federal: NA Critical Habitat: NA | Glossy Snake <i>Arizona elegans</i>
State: SNC Federal: NA Critical Habitat: NA | Wabash Pigtoe Mussel <i>Fusconaia flava</i>
State: SNC Federal: NA Critical Habitat: NA |
| Brindled Madtom <i>Noturus miurus</i>
State: SNC Federal: NA Critical Habitat: NA | Highfin Carpsucker <i>Carpiodes velifer</i>
State: SNC Federal: NA Critical Habitat: NA | Wartyback Mussel <i>Quadrula nodulata</i>
State: SNC Federal: NA Critical Habitat: NA |
| Cerulean Warbler <i>Dendroica cerulea</i>
State: SNC Federal: NA Critical Habitat: NA | Prairie Mole Cricket <i>Gryllotalpa major</i>
State: SNC Federal: NA Critical Habitat: NA | Washboard Mussel <i>Megaloniais nervosa</i>
State: SNC Federal: NA Critical Habitat: NA |
| Creeper Mussel <i>Strophitus undulatus</i>
State: SNC Federal: NA Critical Habitat: NA | Reg-Shouldered Hawk <i>Buteo lineatus</i>
State: SNC Federal: NA Critical Habitat: NA | Yellow Sandshell Mussel <i>Lampsilis teres</i>
State: SNC Federal: NA Critical Habitat: NA |
| Deertoe Mussel <i>Truncilla truncata</i>
State: SNC Federal: NA Critical Habitat: NA | River Redhorse <i>Moxostoma carinatum</i>
State: SNC Federal: NA Critical Habitat: NA | |
| Eastern Hognose Snake <i>Heterodon platirhinos</i>
State: SNC Federal: NA Critical Habitat: NA | Round Pigtoe Mussel <i>Pleurobema coccineum</i>
State: SNC Federal: NA Critical Habitat: NA | |
| Fawnsfoot Mussel <i>Truncilla donaciformis</i>
State: SNC Federal: NA Critical Habitat: NA | Short-eared Owl <i>Asio flammeus</i>
State: SNC Federal: NA Critical Habitat: NA | |

NEOSHO COUNTY

COUNTY LOCATOR MAP



STATUS KEY

- THR = Threatened
 END = Endangered
 SNC = Species In Need of Conservation
 CAN = Candidate Listing
 NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

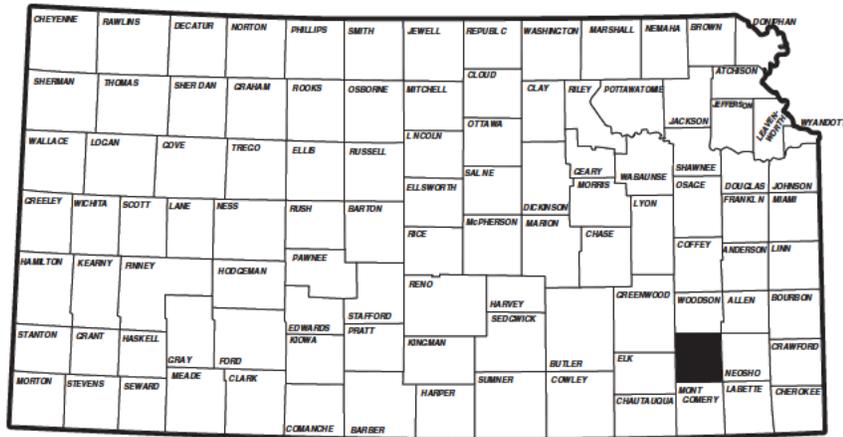
- | | | |
|--|--|--|
| American Burying Beetle <i>Nicrophorus americanus</i>
State: END Federal: END Critical Habitat: NO | Least Tern <i>Sterna antillarum</i>
State: END Federal: END Critical Habitat: NO | Snowy Plover <i>Charadrius alexandrinus</i>
State: THR Federal: NA Critical Habitat: NO |
| Bald Eagle <i>Haliaeetus leucocephalus</i>
State: THR Federal: THR Critical Habitat: YES | Neosho Madtom <i>Noturus placidus</i>
State: THR Federal: THR Critical Habitat: YES | Western Fanshell Mussel <i>Cyprogenia aberti</i>
State: END Federal: NA Critical Habitat: NO |
| Butterfly Mussel <i>Ellipsaria lineolata</i>
State: THR Federal: NA Critical Habitat: YES | Neosho Mucket Mussel <i>Lampsilis rafinesqueana</i>
State: END Federal: NA Critical Habitat: YES | |
| Common Map Turtle <i>Graptemys geographica</i>
State: THR Federal: NA Critical Habitat: NO | Ouachita Kidneyshell Mussel <i>Pychobranchus occidentalis</i>
State: THR Federal: NA Critical Habitat: YES | |
| Eastern Spotted Skunk <i>Spilogale putorius</i>
State: THR Federal: NA Critical Habitat: NO | Peregrine Falcon <i>Falco peregrinus</i>
State: END Federal: NA Critical Habitat: NO | |
| Eskimo Curlew <i>Numenius borealis</i>
State: END Federal: END Critical Habitat: NO | Piping Plover <i>Charadrius melodus</i>
State: THR Federal: THR Critical Habitat: NO | |
| Flat Floater Mussel <i>Anodonta suborbiculata</i>
State: END Federal: NA Critical Habitat: NO | Rabbitsfoot Mussel <i>Quadrula cylindrica</i>
State: END Federal: NA Critical Habitat: YES | |
| Flutedshell Mussel <i>Lasmigona costata</i>
State: THR Federal: NA Critical Habitat: YES | Redspot Chub <i>Nocomis asper</i>
State: THR Federal: NA Critical Habitat: NO | |

SPECIES IN NEED OF CONSERVATION (SINC)

- Black Tern** *Chlidonias niger*
State: SNC Federal: NA Critical Habitat: NA
- Blue Sucker** *Cycleptus elongatus*
State: SNC Federal: NA Critical Habitat: NA
- Golden Eagle** *Aquila chrysaetos*
State: SNC Federal: NA Critical Habitat: NA
- Gravel Chub** *Erimystax x-punctatus*
State: SNC Federal: NA Critical Habitat: NA
- Highfin Carpsucker** *Carpionodes velifer*
State: SNC Federal: NA Critical Habitat: NA
- Long-billed Curlew** *Numenius americanus*
State: SNC Federal: NA Critical Habitat: NA
- Spotted Sucker** *Minytrema melanops*
State: SNC Federal: NA Critical Habitat: NA
- Wartyback Mussel** *Quadrula nodulata*
State: SNC Federal: NA Critical Habitat: NA

WILSON COUNTY

COUNTY LOCATOR MAP



STATUS KEY

- THR = Threatened
 END = Endangered
 SNC = Species In Need of Conservation
 CAN = Candidate Listing
 NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

- | | |
|---|--|
| American Burying Beetle <i>Nicrophorus americanus</i>
State: END Federal: END Critical Habitat: YES | Neosho Mucket Mussel <i>Lampsilis rafinesqueana</i>
State: END Federal: NA Critical Habitat: YES. |
| Bald Eagle <i>Haliaeetus leucocephalus</i>
State: THR Federal: THR Critical Habitat: NO | Ouachita Kidneyshell Mussel <i>Pychobranchus occidentalis</i>
State: THR Federal: NA Critical Habitat: YES |
| Butterfly Mussel <i>Ellipsaria lineolata</i>
State: THR Federal: NA Critical Habitat: YES | Peregrine Falcon <i>Falco peregrinus</i>
State: END Federal: NA Critical Habitat: NO |
| Common Map Turtle <i>Graptemys geographica</i>
State: THR Federal: NA Critical Habitat: NO | Piping Plover <i>Charadrius melodus</i>
State: THR Federal: THR Critical Habitat: NO |
| Eastern Spotted Skunk <i>Spilogale putorius</i>
State: THR Federal: NA Critical Habitat: YES | Rabbitsfoot Mussel <i>Quadrula cylindrica</i>
State: END Federal: NA Critical Habitat: YES |
| Eskimo Curlew <i>Numenius borealis</i>
State: END Federal: END Critical Habitat: NO | Snowy Plover <i>Charadrius alexandrinus</i>
State: THR Federal: NA Critical Habitat: NO |
| Flutedshell Mussel <i>Lasmigona costata</i>
State: THR Federal: NA Critical Habitat: NO | Western Fanshell Mussel <i>Cyprogenia aberti</i>
State: END Federal: NA Critical Habitat: YES |
| Least Tern <i>Sterna antillarum</i>
State: END Federal: END Critical Habitat: NO | |

SPECIES IN NEED OF CONSERVATION (SINC)

- | | |
|--|---|
| Banded Darter <i>Etheostoma zonale</i>
State: SNC Federal: NA Critical Habitat: NA | Round Pigtoe Mussel <i>Pleurobema coccineum</i>
State: SNC Federal: NA Critical Habitat: NA |
| Bobolink <i>Dolichonyx oryzivorus</i>
State: SNC Federal: NA Critical Habitat: NA | Timber Rattlesnake <i>Crotalus horridus</i>
State: SNC Federal: NA Critical Habitat: NA |
| Brindled Madtom <i>Noturus miurus</i>
State: SNC Federal: NA Critical Habitat: NA | Wabash Pigtoe Mussel <i>Fusconaia flava</i>
State: SNC Federal: NA Critical Habitat: NA |
| Creeper Mussel <i>Strophitus undulatus</i>
State: SNC Federal: NA Critical Habitat: NA | Wartyback Mussel <i>Quadrula nodulata</i>
State: SNC Federal: NA Critical Habitat: NA |
| Deertoe Mussel <i>Truncilla truncata</i>
State: SNC Federal: NA Critical Habitat: NA | Washboard Mussel <i>Megaloniaias nervosa</i>
State: SNC Federal: NA Critical Habitat: NA |
| Fawnsfoot Mussel <i>Truncilla donaciformis</i>
State: SNC Federal: NA Critical Habitat: NA | Yellow Sandshell Mussel <i>Lampsilis teres</i>
State: SNC Federal: NA Critical Habitat: NA |
| Golden Eagle <i>Aquila chrysaetos</i>
State: SNC Federal: NA Critical Habitat: NA | |
| Henslow's Sparrow <i>Ammodramus henslowii</i>
State: SNC Federal: NA Critical Habitat: NA | |

Table 4-1-B
Zone 7
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25			43						
CRCT-Plainville Station	Skimmer	1									
CRCT-Winfield Office	Vacuum Truck	1		300							
CRCT-Winfield Office	Transport with pump	25			28						
CRCT-Winfield Office	Skimmer	1									
CRCT-Bartlesville Station	Vacuum Truck	4		300							
CRCT-Bartlesville Station	Transport with pump	25			50						
CRCT-Bartlesville Station	Skimmer	1			71.5						
CRCT (all stations)	Skimmer	1									
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity
 Vacuum Truck Total Quantity
 Transport Total Quantity

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Herfel - Hays, KS	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
Herfel - Hays, KS	Skimmer	1			25						
ACME - Tulsa, OK	Skimmer	4			80						
Veolia - Kansas City, MO	Vacuum Truck	6		300							
Veolia - Kansas City, MO	Skimmer	1			80						
A Clean Environment - Tulsa, OK	Skimmer	6			245						

Skimmer Total Quantity
 Vacuum Truck Total Quantity
 Transport Total Quantity

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- ^a EDRC Effective Daily Recovery Capacity.
 CRCT Coffeyville Resources Crude Transportation, LLC.
 CRT Coffeyville Resources Terminal, LLC.
 bpd barrels per day.
 bph barrels per hour.
^b Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
 Herfel Herfel Tank Service, Inc., Hays, KS.
 ACME ACME Environmental Spill Response Resources, Tulsa, OK.
 Veolia Veolia Environmental Services, Kansas City, MO.
 A Clean Environment, Tulsa, OK.
^c Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
^d Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
^e Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
^f Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
^g Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Full quantity identified available for Tier 3 Response.
^h Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 $R = D \times U$, where
 R—Effective daily recovery capacity;
 D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808–83; Item 13.2.16 in F 631–99; or actual performance data); and
 U—Hours per day that equipment can operate under discharge conditions.
 CRT can sustain recovery operations for 12 hours per day.
ⁱ Summation of skimmer rate (bpd) based on $R = D \times U$.
^j Summation of vacuum truck rate (bpd) based on $R = D \times U$.
^k Summation of transport rate based on $R = D \times U$. Assumes 6 hrs for travel, load, and unload.
^l Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP			
CRCT Contracted and Identified EDRC above CAP			
EDRC Required Per 40CFR 112.20 Appendix E (i)			
EDRC Requirement Evaluation:	MET	MET	MET

EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E			
EDRC Requirement Evaluation:	MET	MET	MET

Zone 7 Worksheet
 Effective Daily Recovery Capacity Evaluation
 Coffeyville Resources Crude Transportation, LLC.
 Bartlesville Facility Response Plan
 Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1588
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil, 3, UN1267, PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL, 3, UN1267, PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto, 3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

WPS-CF-002 - Crude Oil

Revision Date January 2007

16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

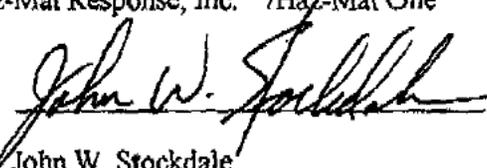
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-782-6206

Fax #: 913-905-0290

HAZ-MAT RESPONSE, INC.SM
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 - B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

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3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

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\$1,000,000.00 each occurrence.

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18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

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writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

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If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

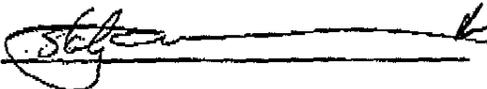
or at such other address as either shall have designated by notice to the other party.

22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

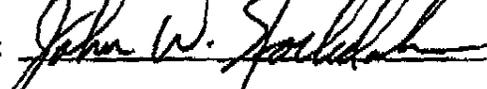
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

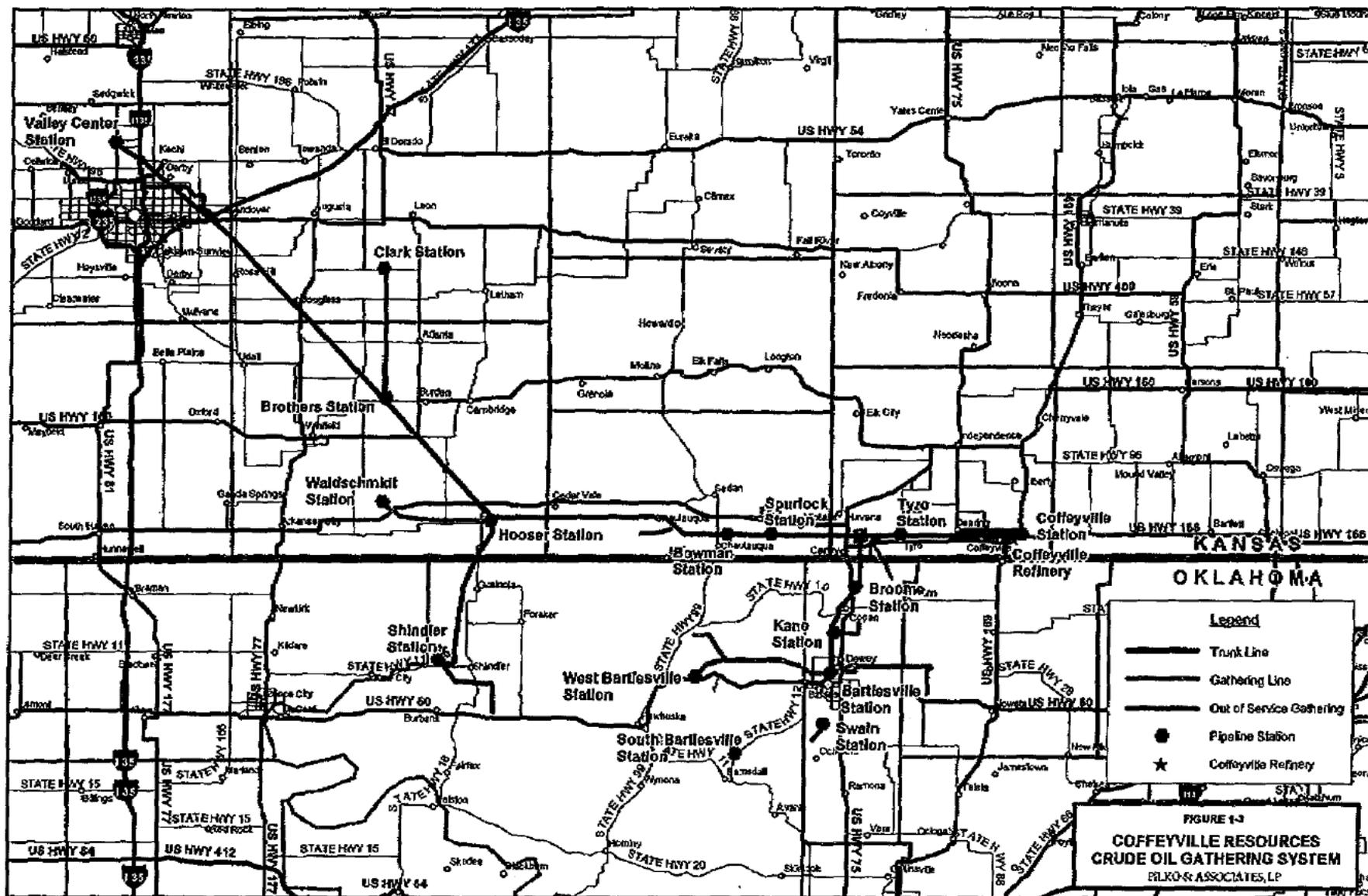
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A



Legend

- Trunk Line
- Gathering Line
- Out of Service Gathering
- Pipeline Station
- Coffeyville Refinery

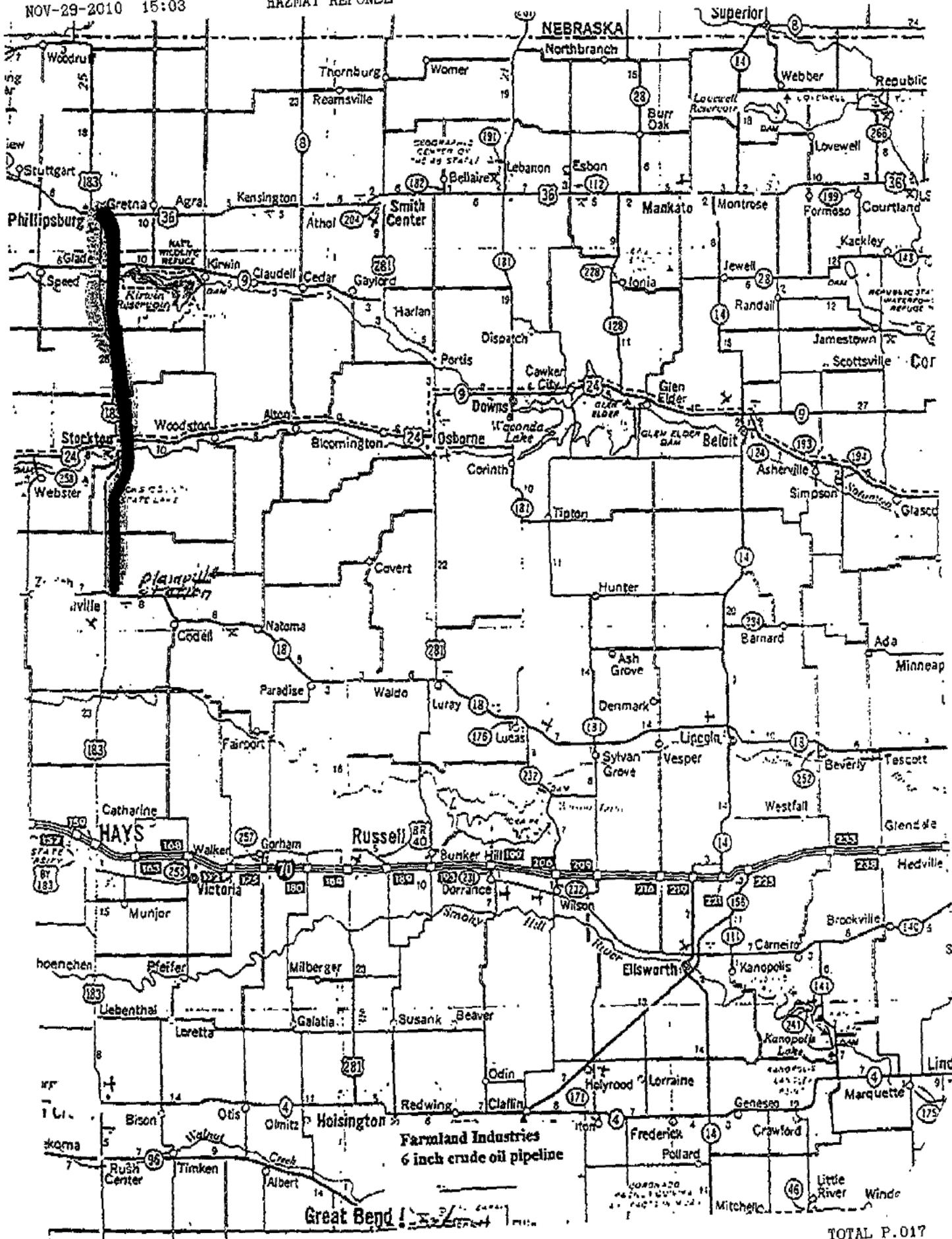
FIGURE 1-1
COFFEYVILLE RESOURCES
CRUDE OIL GATHERING SYSTEM
 RLKO & ASSOCIATES, LP

106675.00

17

NOV-29-2010 15:03

HAZMAT REPOSENSE



Farmland Industries
6 inch crude oil pipeline

Great Bend!

Response Zone # 8 Appendix

The pipeline in this response zone consists of an 8-inch crude oil pipeline known as Kelley Station to Barnsdall Station, 8-inch pipeline. This pipeline is in a right-of-way corridor with three other pipelines operated by Magellan Pipeline Company.

This pipeline crosses various rivers and creeks 18 times between Kelley Station and Barnsdall Station including Solomon Creek (two locations), Lucy Creek, Gray Horse Creek, Hominy Creek (two locations), Little Hominy Creek (four locations), Birch Creek (three locations), Red Eagle Branch (two locations), Bird Creek, and Choteau Creek.

Summary of 18 Water Crossings for Response Zone #8

Solomon Crk (1 & 2)	T-25N	R-6E	SE Section 21
Gray Horse Creek	T-25N	R-7E	SE Section 30
Lucy Creek	T-25N	R-7E	SE Section 30
Hominy Creek (1)	T-25N	R-7E	SW Section 27
Hominy Creek (2)	T-25N	R-7E	SE Section 27
Little Hominy Crk (1)	T-25N	R-8E	NE Section 31
Little Hominy Crk (2)	T-25N	R-8E	NE Section 32
Little Hominy Crk (3)	T-25N	R-8E	NW Section 33
Little Hominy Crk (4)	T-25N	R-8E	SW Section 35
Birch Creek (1)	T-24N	R-9E	NW Section 4
Birch Creek (2)	T-24N	R-9E	SE Section 3
Birch Creek (3)	T-24N	R-9E	SW Section 2
Birch Creek (4)	T-24N	R-10E	NE Section 9
Red Eagle Branch (1)	T-24N	R-10E	NE Section 11
Red Eagle Branch (2)	T-24N	R-10E	NW Section 12
Bird Creek	T-24N	R-11E	SW Section 6
Choteau Creek	T-25N	R-11E	SE Section 31

In the event of a release at any of these locations, crude oil could enter the rivers or creeks of this response zone.

The location of the Kelley Station to Barnsdall Station 8-inch pipeline section which could affect this zone is from the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 20, T-25N, R-6E to the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 32, T-25N, R-11E.

Response Zone # 8 Location

This zone starts approximately three miles north of Fairfax, Oklahoma and extends approximately 30 miles west to approximately three miles north of Barnsdall, Oklahoma (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it traverses recreational surface water bodies and waterways that serve as sensitive habitat areas (see Table 1 in Section 9).

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman	(918) 333-4111 (Ext. 5014)		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil Discharges

National Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

State of Oklahoma

Crude oil discharges in the state of Oklahoma may have to be reported to two different State agencies.

All crude oil discharges to navigable water and discharges in excess of 5 gallons to land must be reported to the Oklahoma Corporation Commission. If the crude oil discharge occurs in Osage County, contact the Bristow office at: (918) 367-3396.

The local Oklahoma Corporation Commission field representative may be called instead of calling Bristow. The field representatives are Mike Brown telephone number: (918) 807-0997 and Jim Waite (918) 697-3056.

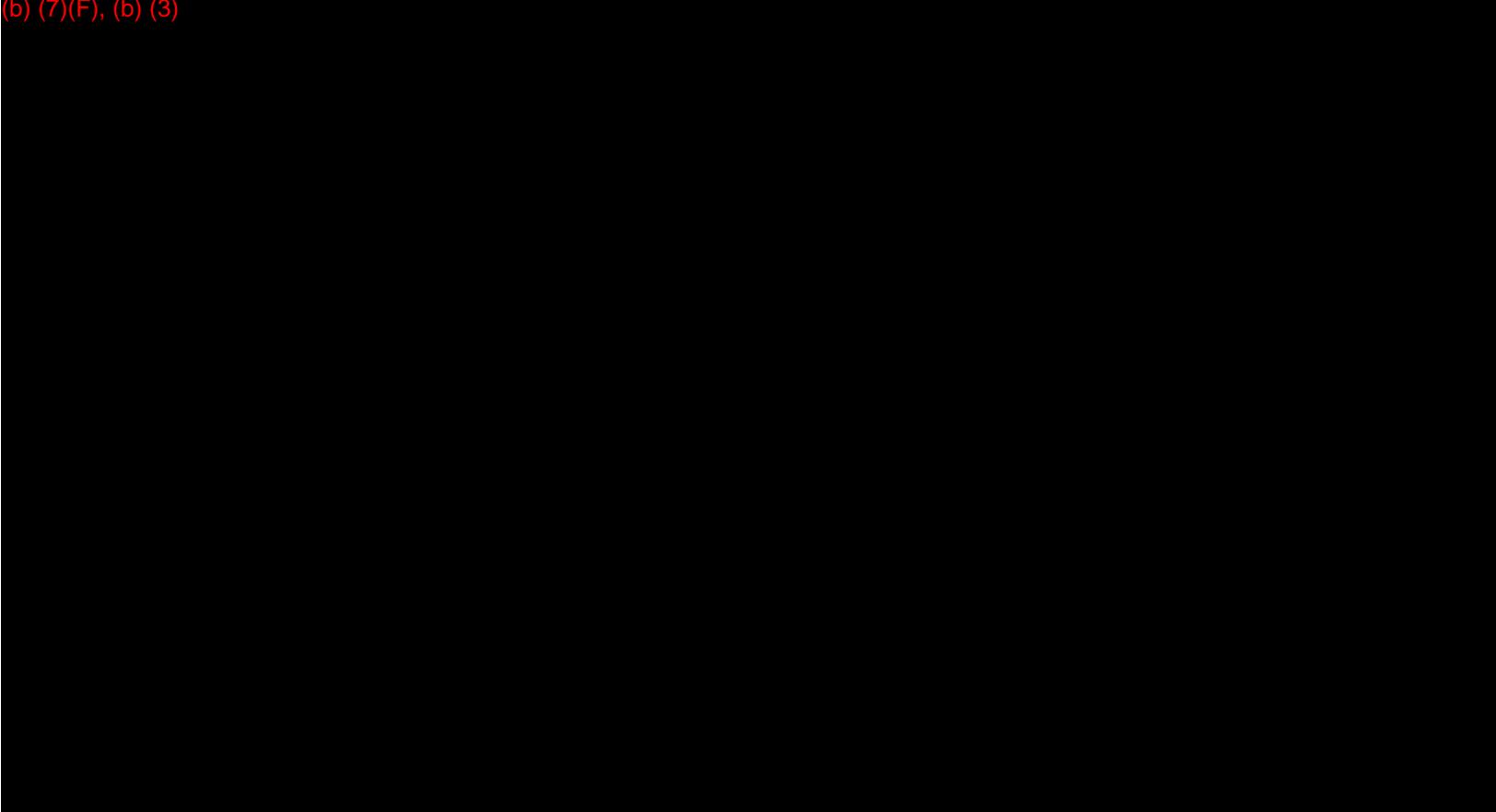
Crude oil discharges of 5 gallons or more on land or any amount on a waterway, must be reported to the Oklahoma Department of Environmental Quality at: (800) 522-0206.

Persons reporting a discharge to either State agency should have the following information available:

- Name of pipeline
- Type of oil discharge
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)



Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.
- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as booms and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire

- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 8, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 8 Tab. It is estimated that the Bartlesville pipeline owned equipment can be on the scene of any crude oil spill within one hour and the Winfield pipeline owned equipment can be on scene within three hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 12 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Oklahoma

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VI	(866) 372-7745
Oklahoma Corporation Commission (Bristow Office) (Area Representative)	(918) 367-3396 (918) 807-0997 or (918) 697-3056
Oklahoma Dept. of Env. Quality	(800) 522-0206
Corp of Engineers (Hulah)	(918) 532-4334
Osage Co. Fire, Ambulance	(918) 287-4210
Osage Co. Sheriff	(918) 287-3131
Osage Co. Fire	(918) 287-4210
Local Emergency Planning Committee (Osage County)	(918) 287-3131
Osage Indian Agency	(918) 287-5555
Oklahoma One Call	(800) 522-6543
Bartlesville Water Dept.	(918) 338-4282
Barnsdall Water Dept.	(918) 847-2506
Pawhuska Water Dept.	(918) 287-3260
Osage County Rural Water Dist.	(918) 695-7402

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

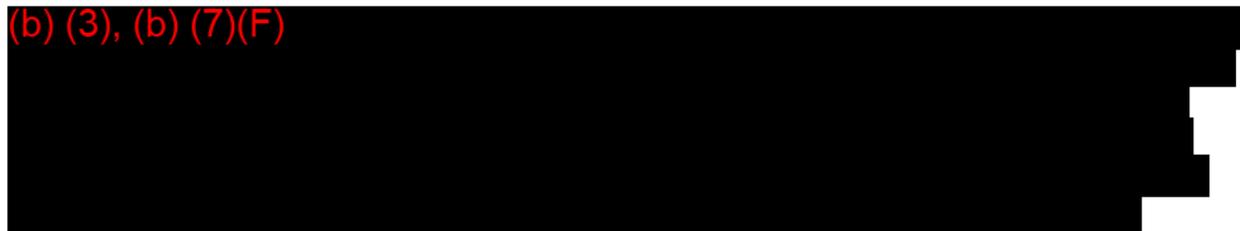
- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

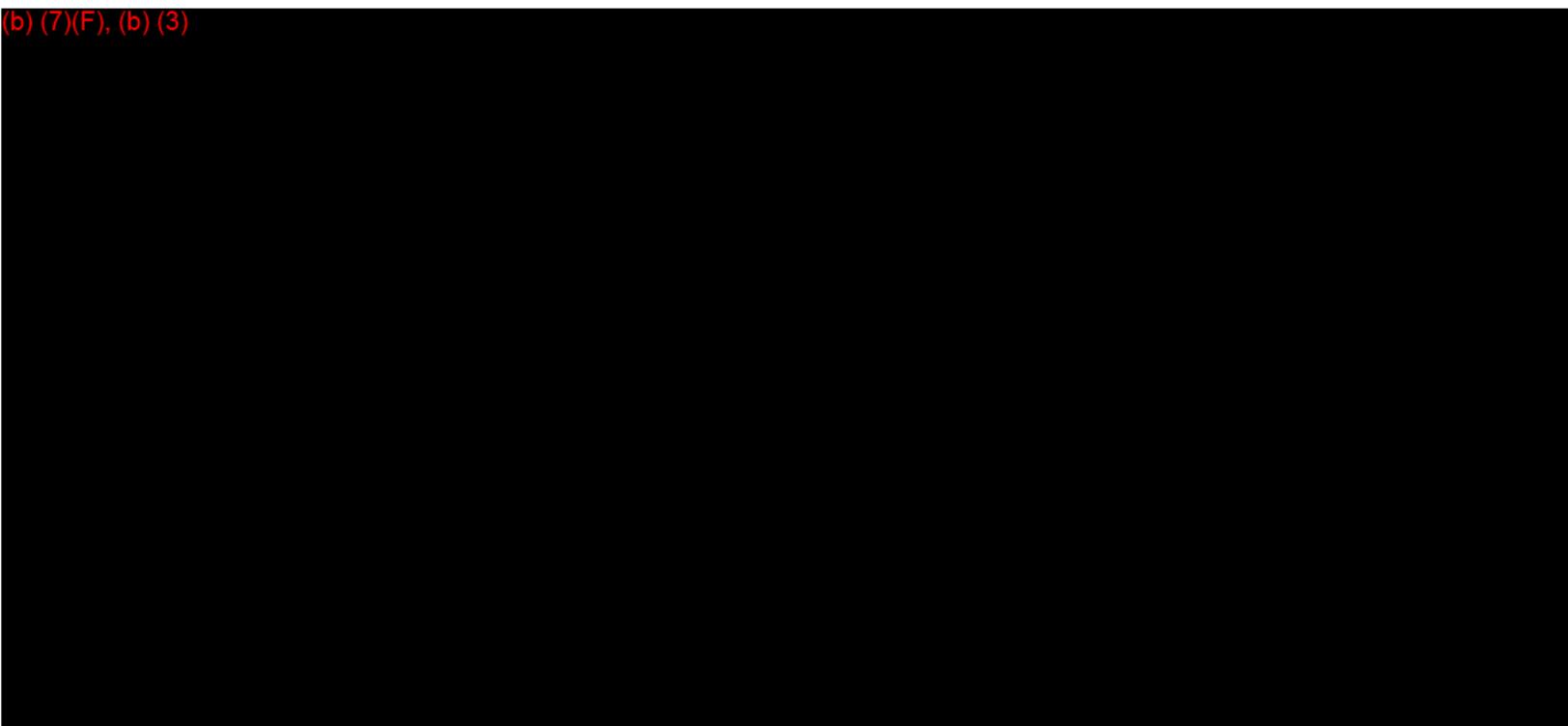
The maximum allowable credit is 75 %.

(b) (3), (b) (7)(F)



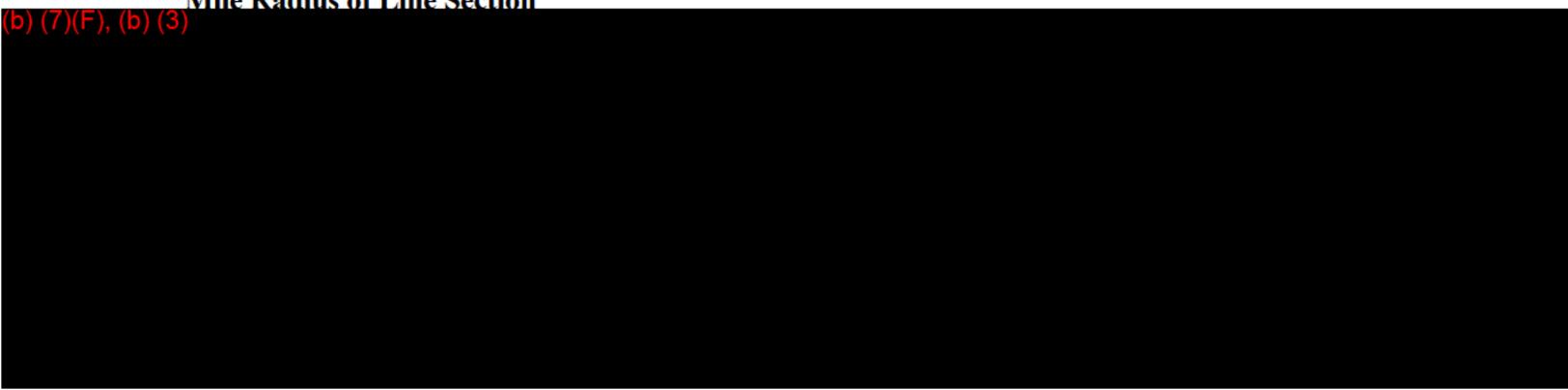
Worst case discharge estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)



Potentially Affected Public Drinking Water Intake, Lake, River, and Stream Within a Five Mile Radius of Line Section

(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)

Environmentally Sensitive Area Within a One Mile Radius of The Line Section.

Portions of Salt Creek, Birch Creek, and Bird Creek, and the tributary waterways that feed them are recreational and ecological protection areas.

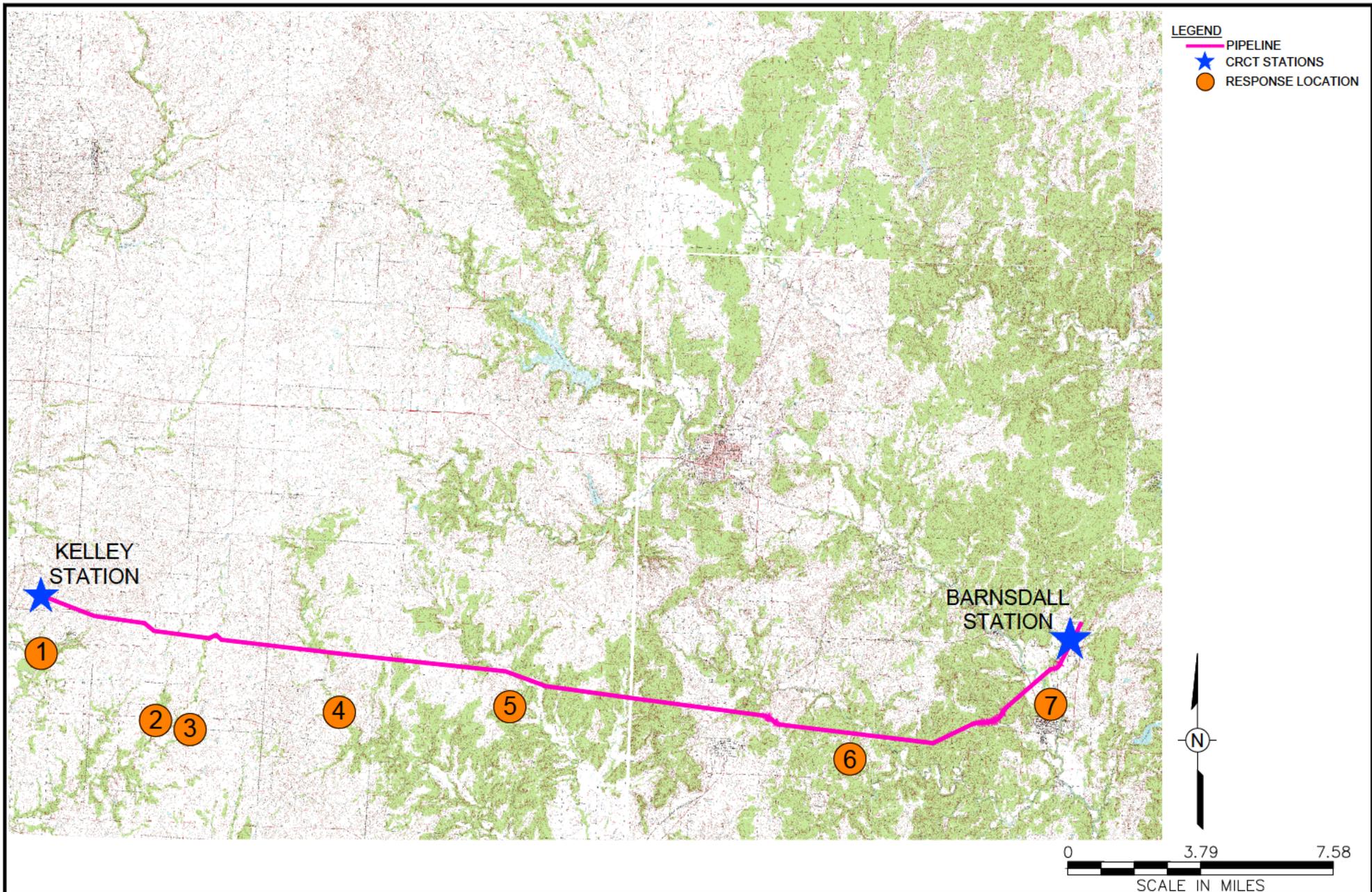
Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 8 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 8 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.



Coffeyville Resources Crude Transportation, LLC
P.O. Box 3516
411 NE Washington Boulevard
Bartlesville, Oklahoma 74006
918-333-4111

Zone 8
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R		Potential Lake Access			
	OK	Washington	Caney River	Crosstimbbers, T&E Species, Recreation	3 (f)	5	A, S	C D R		Shoreline Access			
	OK	Washington	Caney River	Crosstimbbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake	(b) (7)(F), (b) (3)	1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake	(b) (7)(F), (b) (3)	1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200	290	Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R			Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R			300		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200	275	Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R			Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Vedigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Vedigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominy Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominy Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)	(b) (7)(F), (b) (3)	1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

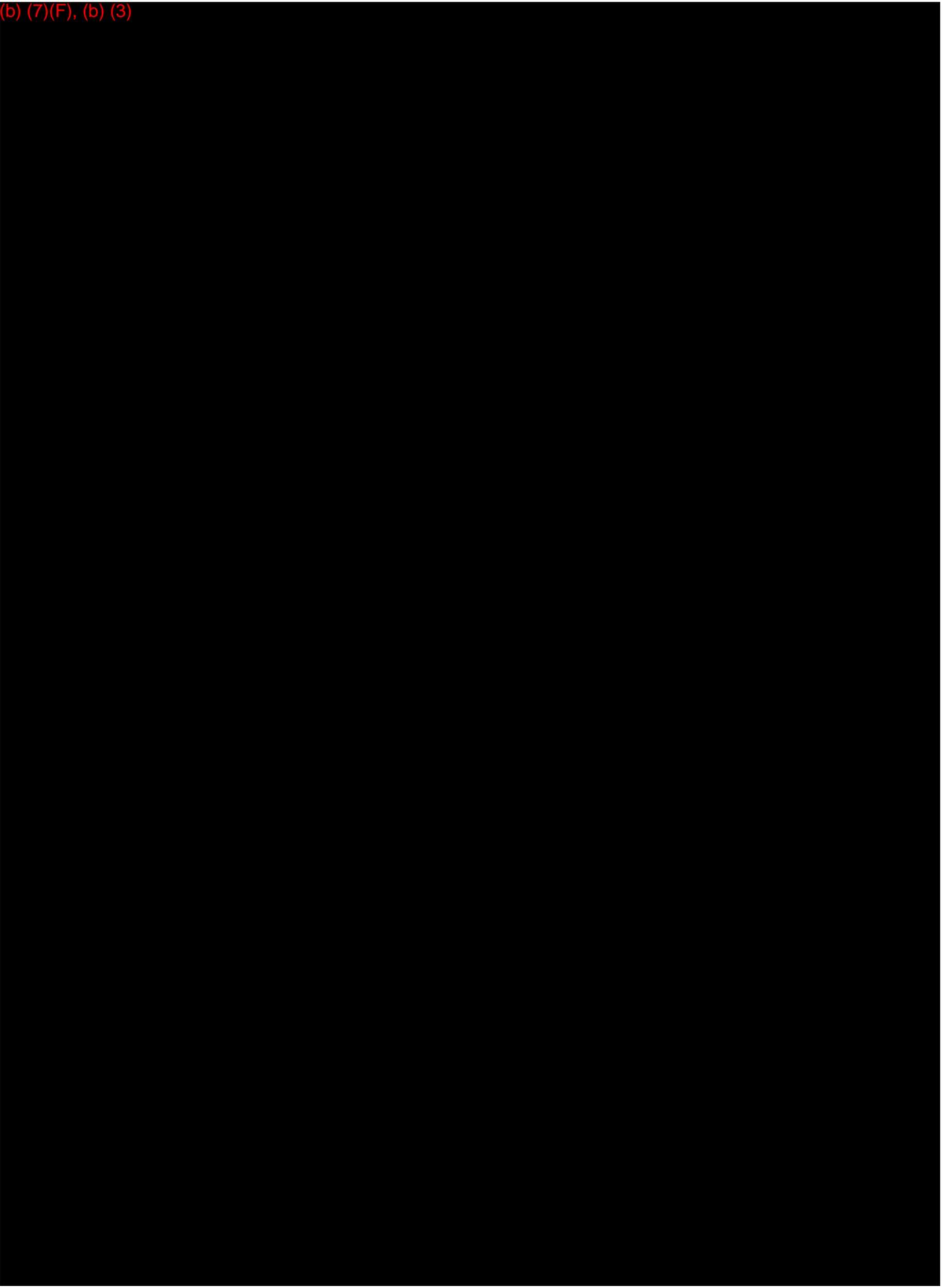
<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneyshell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	2, 4, 7, 9

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

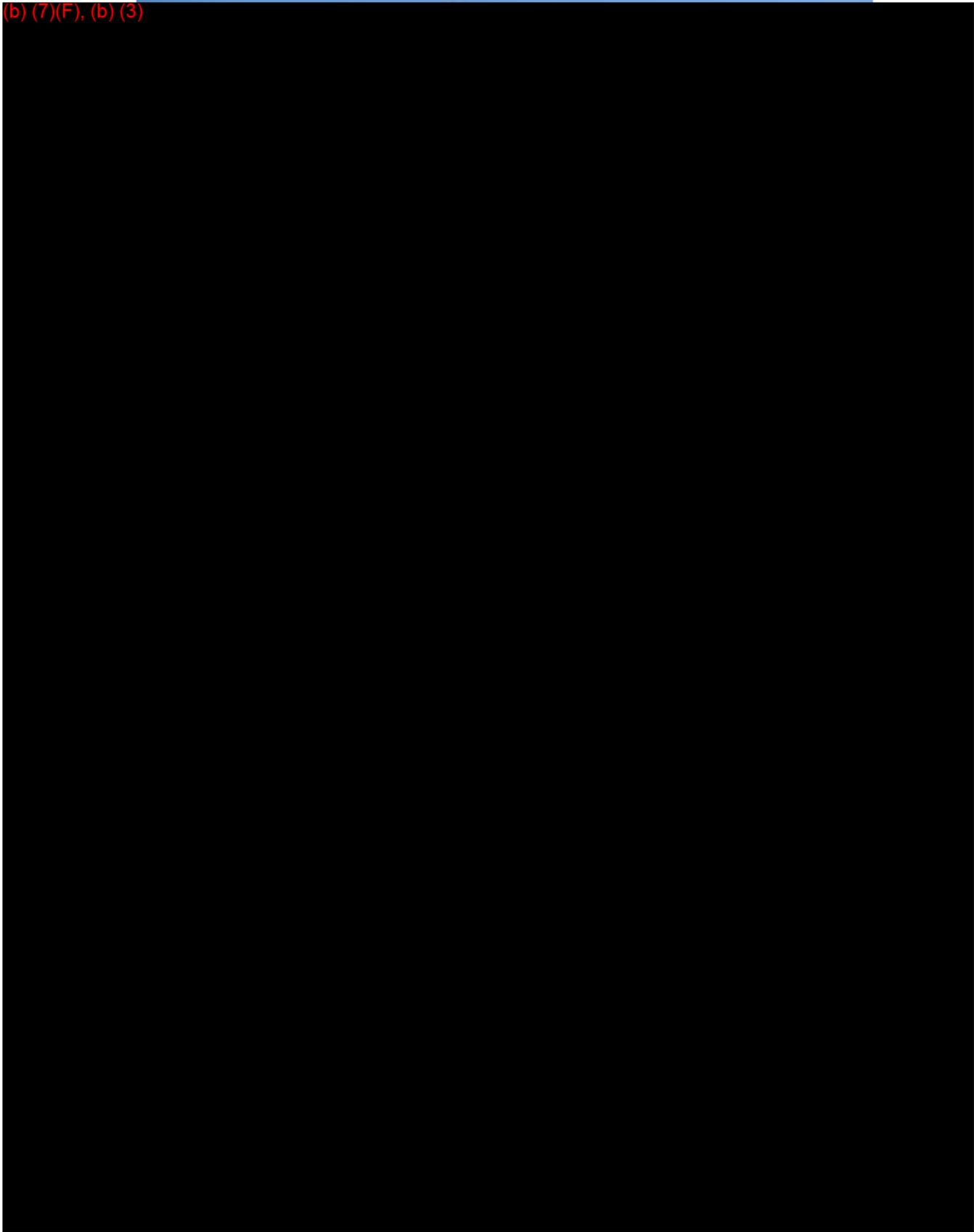
<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>					
Neosho	American Burying Beetle	E	E	N/A					
	Bald Eagle	T	T	7					
	Butterfly Mussel	T	N	7					
	Common Map Turtle	T	N	N/A					
	Eastern Spotted Skunk	T	N	N/A					
	Eskimo Curlew	E	E	N/A					
	Flat Floater Mussel	E	N	N/A					
	Flutedshell Mussel	T	N	7					
	Least Tern	E	E	N/A					
	Neosho Madtom	T	T	7					
	Neosho Mucket Mussel	E	N	7					
	Ouachita Kedneysell Mussel	T	N	7					
	Peregrine Falcon	E	N	N/A					
	Piping Plover	T	T	N/A					
	Rabbitsfoot Mussel	E	N	7					
	Redspot Chub	T	N	N/A					
	Snowy Plover	T	N	N/A					
	Western Fanshell Mussel	E	N	N/A					
Wilson	American Burying Beetle	E	E	7					
	Bald Eagle	T	T	N/A					
	Butterfly Mussel	T	N	N/A					
	Common Map Turtle	T	N	N/A					
	Eastern Spotted Skunk	T	N	7					
	Eskimo Curlew	E	E	N/A					
	Flutedshell Mussel	T	N	N/A					
	Least Tern	E	E	N/A					
	Neosho Mucket Mussel	E	N	N/A					
	Ouachita Kedneysell Mussel	T	N	N/A					
	Peregrine Falcon	E	N	N/A					
	Piping Plover	T	T	N/A					
	Rabbitsfoot Mussel	E	N	N/A					
	Snowy Plover	T	N	N/A					
	Western Fanshell Mussel	E	N	N/A					
	County in Oklahoma	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
						Nowata	Bald Eagle	AD, T	N/A
							Neosho Mucket Mussel	E	4
Peregrine Falcon							DM	N/A	
Piping Plover							E, T	4	
Osage						Bald Eagle		AD, T	N/A
						Least Tern		E	N/A
						Neosho Mucket Mussel		E	8
						Peregrine Falcon		DM	N/A
						Piping Plover		E	8
Whooping Crane							E, EXPN	8	
Washington						Bald Eagle		AD, T	N/A
						Neosho Mucket Mussel		E	9
						Peregrine Falcon		DM	N/A
						Piping Plover		T	9
Whooping Crane							E, EXPN	N/A	

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

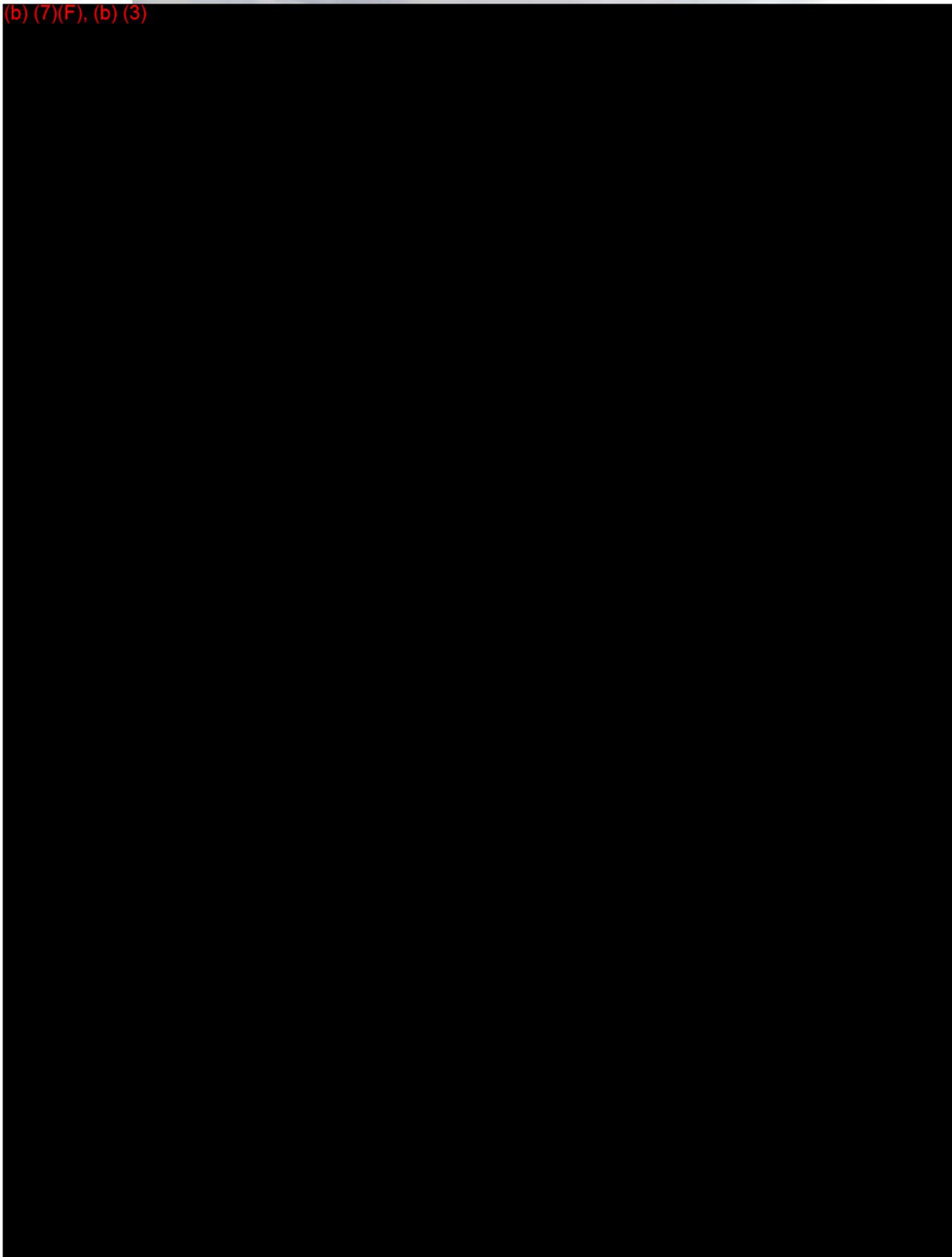
(b) (7)(F), (b) (3)



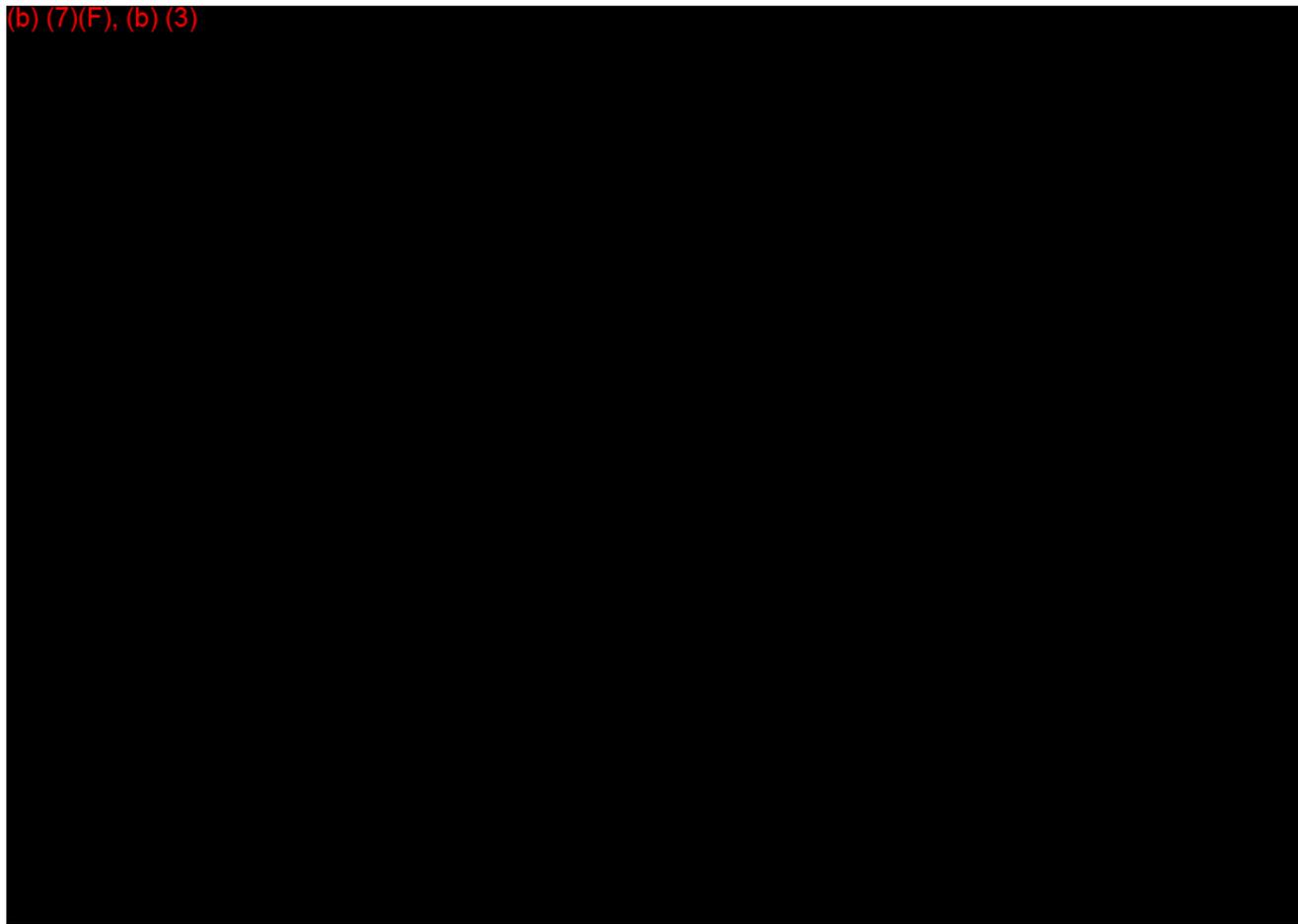
(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)



Federally Endangered, Threatened, Proposed, and Candidate Species in Oklahoma

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>Birds</u>		
<i>Vermivora bachmanii</i>	Bachman's warbler	LE-EX
<i>Vireo atricapilla</i>	Black-capped vireo	LE
<i>Numenius borealis</i>	Eskimo curlew	LE-EX
<i>Sterna antillarum</i>	Interior least tern	LE
<i>Campephilus principalis</i>	Ivory-billed woodpecker	LE-EX
<i>Tympanuchus pallidicinctus</i>	Lesser prairie chicken	PT
<i>Charadrius melodus</i>	Piping plover	LT
<i>Anthus spragueii</i>	Sprague's pipit	C
<i>Picoides borealis</i>	Red-cockaded woodpecker	LE
<i>Grus americana</i>	Whooping crane	LE
<u>Fishes</u>		
<i>Etheostoma cragini</i>	Arkansas darter	C
<i>Notropis girardi</i>	Arkansas River shiner	LT
<i>Percina pantherina</i>	Leopard darter	LT
<i>Noturus placidus</i>	Neosho madtom	LT
<i>Amblyopsis rosae</i>	Ozark cavefish	LT
<u>Insects</u>		
<i>Nicrophorus americanus</i>	American burying beetle	LE
<u>Mammals</u>		
<i>Mustela nigripes</i>	Black-footed ferret	LE-EX
<i>Myotis grisescens</i>	Gray bat	LE
<i>Canis lupus</i>	Gray wolf	LE-EX
<i>Ursus arctos horribilis</i>	Grizzly bear	LT-EX
<i>Myotis sodalis</i>	Indiana bat	LE
<i>Corynorhinus townsendii ingens</i>	Ozark big-eared bat	LE
<i>Canis rufus</i>	Red wolf	LE-EX
<u>Mussels</u>		
<i>Lampsilis rafinesqueana</i>	Neosho mucket mussel	PE
<i>Arkansia wheeleri</i>	Ouachita rock-pocketbook mussel	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot mussel	PT
<i>Leptodea leptodon</i>	Scaleshell mussel	LE
<i>Quadrula fragosa</i>	Winged mapleleaf mussel	LE
<u>Reptiles</u>		
<i>Alligator Mississippiensis</i>	American alligator	LT-SA

Plants

<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT-EX
<i>Platanthera praeclara</i>	Western prairie fringed orchid	LT-EX
<i>Ptilimnium nodosum</i>	Harperella	LE

Key

LE	Listed endangered
LT	Listed threatened
PE	Proposed Endangered
PT	Proposed threatened
EX	Believed to be extirpated in Oklahoma
SA	Endangered due to similarity of appearance to other listed species.
C	Candidate (The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities).

Last Updated: February 4, 2013

Prepared by U.S. Fish and Wildlife Service, Oklahoma Ecological Services Office

County by County List of Endangered and Threatened Species

Adair County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Long-nosed Darter (*Percina nasuta*) – endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed threatened and endangered in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Alfalfa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Whooping Crane (*Grus americana*) - endangered

Atoka County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Beaver County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Whooping Crane (*Grus americana*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Beckham County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Blaine County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Bryan County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Caddo County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Canadian County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Carter County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cherokee County**State-listed Threatened and Endangered Species:**

- Neosho Mucket (*Lampsilis rafinesqueana*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Choctaw County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Scaleshell (*Leptodea leptodon*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cimarron County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Cleveland County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Coal County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered

Comanche County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Black-capped Vireo (*Vireo atricapillus*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Cotton County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Craig County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
 Neosho Madtom (*Noturus placidus*) – threatened
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Creek County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Custer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Delaware County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Oklahoma Cave Crayfish (*Cambarus tartarus*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Dewey County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Ellis County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Garfield County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Garvin County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Grady County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Grant County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Greer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Harmon County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harper County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Haskell County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Hughes County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Jackson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Jefferson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Johnston County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Kay County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Kingfisher County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Kiowa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Latimer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

LeFlore County

State-listed Threatened and Endangered Species:

- Black-sided Darter (*Percina maculata*) -threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

Lincoln County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Logan County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Love County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Major County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Marshall County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Mayes County**State-listed Threatened and Endangered Species:**

None

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) – endangered
- Piping Plover (*Charadrius melodus*) – threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

McClain County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

McCurtain County**State-listed Threatened and Endangered Species:**

- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Red-cockaded Woodpecker (*Picoides borealis*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Winged Mapleleaf (*Quadrula fragosa*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

McIntosh County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Murray County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Muskogee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Noble County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Nowata County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered; historic occurrence in Verdigris River

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Okfuskee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Oklahoma County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Okmulgee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Osage County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Ottawa County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*)

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Gray Bat (*Myotis grisescens*) – endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) – threatened

Neosho Madtom (*Noturus placidus*) – threatened

Ozark Cavefish (*Amblyopsis rosae*) - threatened

Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Pawnee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Payne County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pittsburg County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pontotoc County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pottawatomie County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened**Pushmataha County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangeredIndiana Bat (*Myotis sodalis*) - endangeredInterior Least Tern (*Sterna antillarum*) - endangeredRed-cockaded Woodpecker (*Picoides borealis*) - endangeredOuachita Rock Pocketbook (*Arkansia wheeleri*) – endangeredScaleshell (*Leptodea leptodon*) - endangeredWinged Mapleleaf (*Quadrula fragosa*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedLeopard Darter (*Percina pantherina*) - threatened**Roger Mills County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangeredInterior Least Tern (*Sterna antillarum*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedArkansas River Shiner (*Notropis girardi*) – threatenedLesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation**Rogers County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Seminole County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Sequoyah County

State-listed Threatened and Endangered Species:

- Long-nosed Darter (*Percina nasuta*) - endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Stephens County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Texas County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Tillman County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Tulsa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Wagoner County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Washington County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Piping Plover (*Charadrius melodus*) - threatened

Washita County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Woods County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Woodward County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Table 4-1-B

Zone 8
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25	(F), (b)		43						
CRCT-Plainville Station	Skimmer	1	(3)								
CRCT-Winfield Office	Vacuum Truck	1		300							
CRCT-Winfield Office	Transport with pump	25			28						
CRCT-Winfield Office	Skimmer	1									
CRCT-Bartlesville Station	Vacuum Truck	4		300							
CRCT-Bartlesville Station	Transport with pump	25			50						
CRCT-Bartlesville Station	Skimmer	1			71.5						
CRCT (all stations)	Skimmer	1									
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Hertel - Hays, KS	Vacuum Truck	1	(b)	300		(b) (7)(F), (b) (3)					
Hertel - Hays, KS	Skimmer	1	(7)		25						
ACME - Tulsa, OK	Skimmer	4	(F),		80						
Veolia - Kansas City, MO	Vacuum Truck	6	(b)	300							
Veolia - Kansas City, MO	Skimmer	1			80						
A Clean Environment - Tulsa, OK	Skimmer	6			245						

Skimmer Total Quantity	
Vacuum Truck Total Quantity	
Transport Total Quantity	

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- a) EDRC Effective Daily Recovery Capacity.
- CRCT Coffeyville Resources Crude Transportation, LLC.
- CRT Coffeyville Resources Terminal, LLC.
- bpd barrels per day.
- bph barrels per hour.
- hr. hour.
- b) Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
- Hertel Hertel Tank Service, Inc., Hays, KS.
- ACME ACME Environmental Spill Response Resources, Tulsa, OK.
- Veolia Veolia Environmental Services, Kansas City, MO.
- A Clean Environment, Tulsa, OK.
- c) Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
- d) Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
- e) Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- f) Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- g) Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Full quantity identified available for Tier 3 Response.
- h) Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 - R = D x U, where
 - R—Effective daily recovery capacity;
 - D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 - U—Hours per day that equipment can operate under discharge conditions.
- i) CRT can sustain recovery operations for 12 hours per day.
- j) Summation of skimmer rate (bpd) based on R = D x U.
- k) Summation of vacuum truck rate (bpd) based on R = D x U.
- l) Summation of transport rate based on R = D x U. Assumes 6 hrs for travel, load, and unload.
- m) Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement		
CRCT Owned and Contracted EDRC:	(b) (7)(F), (b) (3)	
EDRC CAP Required Per 40CFR 112.20 Appendix E:		
EDRC Requirement Evaluation:	MET	MET

EDRC Identified Resources Requirement		
CRCT Contracted EDRC above CAP:	(b) (7)(F), (b) (3)	
CRCT Identified EDRC above CAP:		
CRCT Contracted and Identified EDRC above CAP:		
EDRC Required Per 40CFR 112.20 Appendix E (i):		
EDRC Requirement Evaluation:	MET	MET

EDRC Total Requirement		
CRCT Owned, Contracted, and Identified EDRC:	(b) (7)(F), (b) (3)	
EDRC Required Per 40CFR 112.20 Appendix E:		
EDRC Requirement Evaluation:	MET	MET

Zone 8 Worksheet
 Effective Daily Recovery Capacity Evaluation
 Coffeyville Resources Crude Transportation, LLC.
 Bartlesville Facility Response Plan
 Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100 in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (I1)	Tier 2 (I2)	Tier 3 (I3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address

Coffeyville Resources Refining

PO Box 1566

Coffeyville, KS. 67337

MSDS Assistance: 1-620-251-4000

Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
-----------------	--

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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil, 3, UN1267, PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL, 3, UN1267, PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto, 3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
\$5,000,000.00 each occurrence.
\$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
Statutory Limits.
- E. Professional Liability:
\$2,000,000.00 per loss.
\$2,000,000 annual aggregate.
- F. Pollution Liability:
\$1,000,000.00 per loss.
\$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

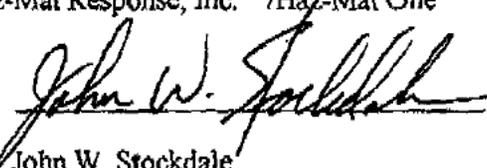
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-782-6206

Fax #: 913-905-0290

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3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

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If to HRI, at the address at the beginning of this Agreement;

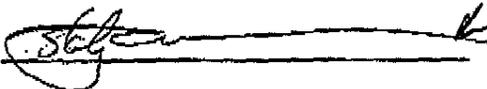
or at such other address as either shall have designated by notice to the other party.

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23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

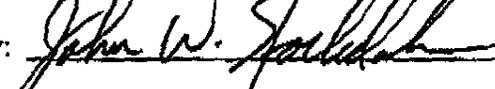
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

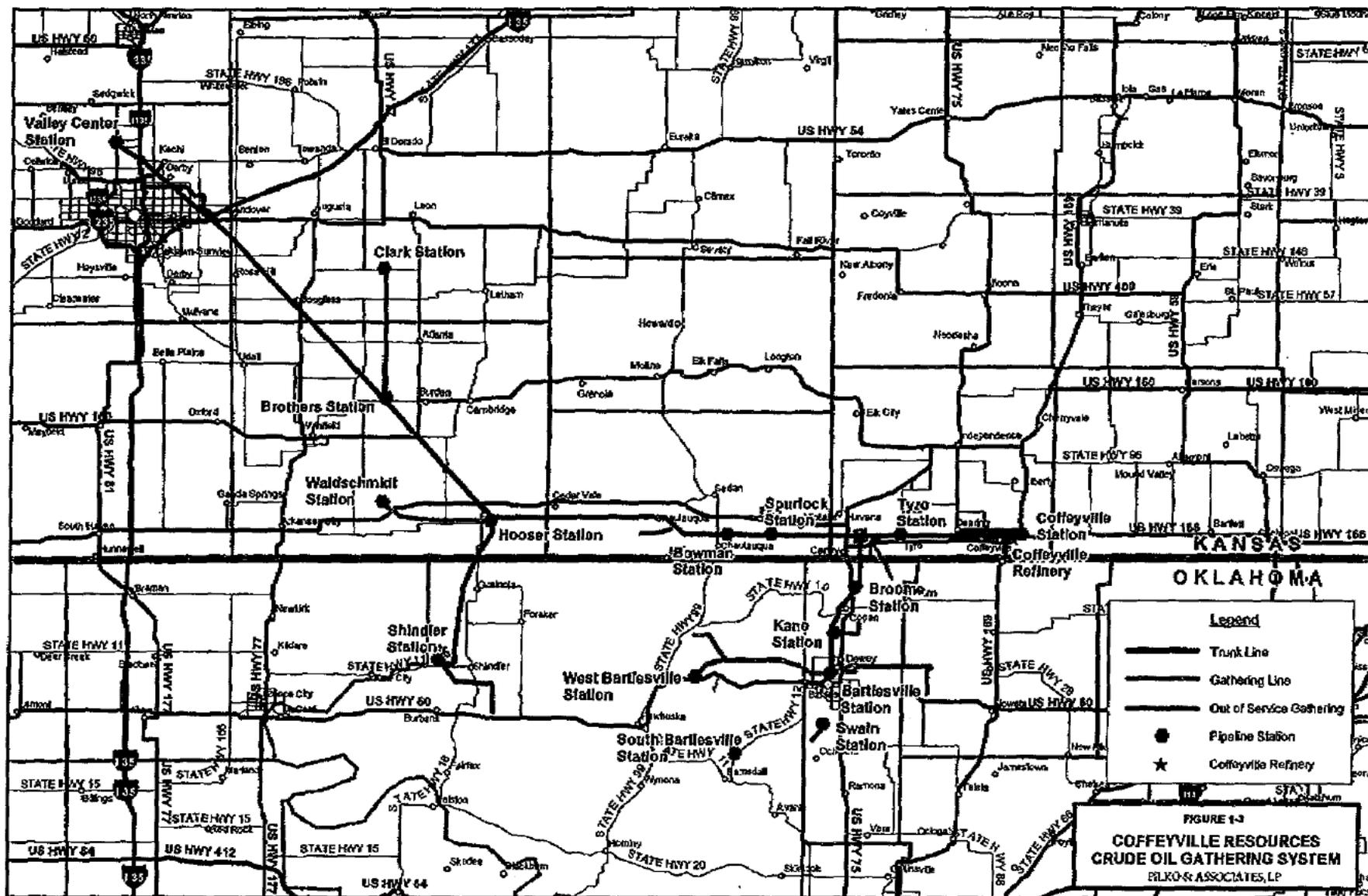
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A



Legend

- Trunk Line
- Gathering Line
- Out of Service Gathering
- Pipeline Station
- Coffeyville Refinery

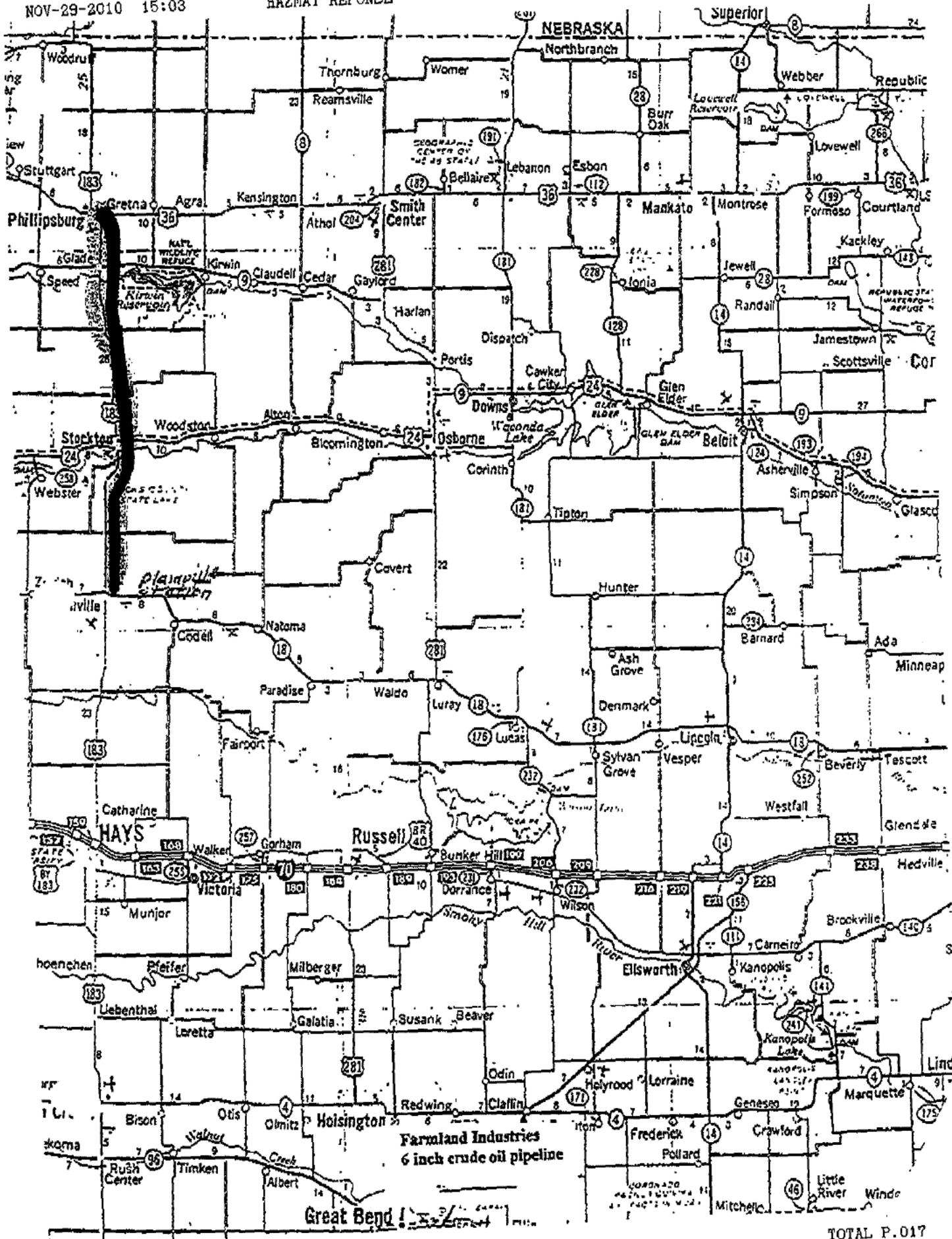
FIGURE 1-1
COFFEYVILLE RESOURCES
CRUDE OIL GATHERING SYSTEM
 RLKO & ASSOCIATES, LP

106675.00

17

NOV-29-2010 15:03

HAZMAT REPOSENSE



Farmland Industries
6 inch crude oil pipeline

Great Bend!

WPS-CF-002 - Crude Oil

Revision Date January 2007

16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

Response Zone # 9 Appendix

The pipeline in this response zone consists of an 8-inch crude oil pipeline known as Barnsdall Station to Caney Junction, 8-inch pipeline. This pipeline is in a right-of-way corridor with three other pipelines operated by Magellan Pipeline Company. In addition, Zone 9 contains a segment of pipeline known as the Caney Junction to Broome Station 8-inch pipeline.

At Caney Junction, the crude oil flow rate from the Barnsdall Station to Caney Junction 8-inch pipeline combine with the flow rate from the Humboldt Station to Caney Junction 8-inch pipeline and therefore the Caney Junction to Broome Station 8-inch pipeline that crosses Hafer Run has a higher flow rate than the Barnsdall Station to Caney Junction 8-inch pipeline. (b) (3), (b) (7)(F)

This pipeline crosses various rivers and creeks 10 times between Barnsdall Station and Caney Junction including Hafer Run (two locations), Mud Creek, Little Caney River, Caney River, Butler Creek, Turkey Creek, Sand Creek, Little Rock Creek, and Pennel Creek.

Summary of 10 Water Crossings for Response Zone #9

Pennel Creek	T-25N	R-11E	NW Section 28
Little Rock Creek	T-26N	R-11E	NE Section 23
Sand Creek	T-26N	R-11E	NE Section 13
Butler Creek	T-27N	R-12E	NE Section 29
Bar-Dew Lake Inlet	T-27N	R-12E	NE Section 16
Caney River (1)	T-27N	R-12E	NW Section 2
Caney River (2)	T-28N	R-12E	SE Section 35
Long Lake Inlet	T-28N	R-12E	SW Section 25
Little Caney River (1)	T-29N	R-13E	NE Section 35
Little Caney River (2)	T-29N	R-13E	NW Section 35
Little Caney River (3)	T-29N	R-13E	SE Section 19
Mud Creek	T-35S	R-14E	NE Section 17
Hafer Run (1 & 2)	T-35S	R-14E	NW Section 9

In the event of a release at any of these locations, crude oil could enter the rivers or creeks of this response zone.

The location of the Barnsdall Station to Caney Junction 8-inch pipeline section which could affect this zone is from the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 32, T-25N, R-11E extending northeast to NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 4, T-35S, R-14E. The location of the Caney Junction to Broome Station 8-inch pipeline section which could affect this zone is from the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 4, T-35S, R-14E extending northwest to NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 4, T-35S, R-14E.

Segments of pipeline associated with Zone 2 and 3, consisting of the Hooser to Broome Station 8-inch pipeline, Broome to Coffeyville 12-inch pipeline, and the 8-inch Humboldt line traverse the area of Zone 9 which includes Copan Lake Protection Area, peripheral portions of Copan Lake, and tributary waterways of Little Caney River.

Response Zone # 9 Location

This zone starts approximately three miles north of Barnsdall, Oklahoma and extends approximately 35 miles northeast to Caney Junction, located approximately two and three quarter miles northeast of Caney, Kansas. From Caney Junction, the zone extends approximately one mile west-northwest to Broome Station (see map in Section 9).

Basis for Determination of Significant and Substantial Harm

This response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water and a state recreation area (see Table 1 in Section 9).

Procedures for Notifying Qualified Individuals

Pipeline marking signs contain the phone numbers for reporting a spill or leak. The daytime phone number is for the Bartlesville Pipeline Office. The phone number for nights and weekends is the Coffeyville Refinery gate house 24-hour number. When a call is reported to the refinery gate house or to the pipeline office, the person taking the call will notify the Qualified Individual. The primary means of communication will be to contact the Qualified Individual by the use of the office telephone. If the Qualified Individual is out of the office, contact will be made via cell phone. Both the Bartlesville Pipeline Office and the Coffeyville Refinery gate house have a list of office phone, home phone, and cell phone numbers of Qualified Individuals.

At least one of the listed Qualified Individuals will be on duty 24 hours per day. All Qualified Individuals have a list of home phone and cell phone numbers of all CRCT employees and the 24-hour phone numbers for Oil Spill Response Organizations. The cell phone number of the Qualified Individual will be considered the 24-hour number.

Qualified Individuals

<u>Name</u>	<u>Office Phone</u>	<u>Home Phone</u>	<u>Cell Phone</u>
Tom Adamson Operations Manager	(620) 221-2107	(b) (6)	
Dennis Young IMP Manager	(620) 221-2107		
Darren Brake Maintenance Foreman	(918) 333-4111 (Ext. 5014)		
Marvin McDonald Trucking Manager	(918) 333-4111 (Ext. 5009)		
John Bullen Truck Coordinator	(918) 333-4111 (Ext. 5016)		
Earl Burns Truck Coordinator	(918) 333-9644 (Ext. 5004)		
Mike Cogdill EHS Supervisor	(918) 333-4111 (Ext. 5005)		
Sheila Leach EHS Technician	(918) 333-4111 (Ext. 5025)		

Note: The Operations Manager is the primary Qualified Individual. If the Operations Manager cannot be contacted, contact should be made in descending order of the Qualified Individuals listed.

Notification Procedures for Reporting Oil DischargesNational Response Center

At the earliest practicable moment following discovery of a discharge of crude oil, a notification must be made, by telephone, to the National Response Center at: (800) 424-8802. This notification must be made if the discharge resulted in:

- A death or personal injury that required hospitalization.
- Resulted in either a fire or explosion not intentionally set by the operator.
- Caused property damage estimate, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000.
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body or water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines.
- In the judgment of the operator, the release was significant even though it did not meet the criteria of any other paragraph of this section.

This telephone report must contain the following information:

- Name and address of the operator.
- Type of oil released.
- Name and telephone number of the reporter.
- The location of the discharge.
- The time of the discharge.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Environmental Protection Agency

While telephone reports to the National Response Center will normally be furnished to the EPA, it will be the policy of CRCT that any crude oil discharges that are required to be reported to the National Response Center will be reported to the applicable regional office of the EPA.

Reports of crude oil releases in Kansas will be reported to the EPA Region VII office at: (913) 551-7003.

Reports of crude oil releases in Oklahoma will be reported to the EPA Region VI office at: (866) 372-7745.

Corp of Engineers

Any discharge of crude oil that would affect the Copan, and Hulah Lake areas must be reported to The Corp of Engineers at: (918) 532-4334.

State of Oklahoma

Crude oil discharges in the state of Oklahoma may have to be reported to two different State agencies.

All crude oil discharges to navigable water and discharges in excess of 5 gallons to land must be reported to the Oklahoma Corporation Commission. If the crude oil discharge occurs in Osage County, contact the Bristow office at: (918) 367-3396.

The local Oklahoma Corporation Commission field representative may be called instead of calling Bristow. The field representatives are Mike Brown telephone number: (918) 807-0997 and Jim Waite (918) 697-3056.

Crude oil discharges of 5 gallons or more on land or any amount on a waterway must be reported to the Oklahoma Department of Environmental Quality at: (800) 522-0206.

Persons reporting a discharge to either State agency should have the following information available:

- Name of pipeline
- Type of oil discharge
- Time of discharge
- Reason for discharge
- Location of spill (legal description)

- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

State of Kansas

All crude oil discharges to navigable water and discharges in excess of 2.6 bbls to land must be reported to the Kansas Department of Health and Environment.

If the crude oil discharge occurs in Chautauqua County, Kansas, contact the Chanute office at (620) 431-2390.

In the event that the above telephone numbers cannot be reached, such as nights or weekends, there is a 24-hour telephone number in Topeka, Kansas. If the situation is so serious that the report should not wait until the regular call can be completed, the 24-hour number is (785) 296-1679. The regular call to the Chanute office should also be made the next business day.

Persons reporting a discharge should have the following information available:

- Name of pipeline
- Type of oil released
- Time of discharge
- Reason for discharge
- Location of spill (legal description)
- Estimated oil loss
- What response equipment will be required
- Weather conditions at the scene
- Nature of damage
- Status of containment
- Plans for handling the spill
- Distance to nearest stream or body of water

Spill Detection and Mitigation Procedures

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)

Mitigation Procedures

When a crude oil discharge is reported to the pipeline office, the person receiving the call will get the following information and report it to the Qualified Individual and the Pipeline Foreman:

- Name, address, and phone number of the person reporting the discharge
- The exact location of the discharge
- The estimated volume of oil discharged and the rate of discharge
- Terrain at the leak site and the distance to navigable water
- Observed damage and likely immediate future damage to environment and livestock

The Pipeline Foreman is responsible for oil clean-up and pipeline repair. Upon receiving a leak report, the Pipeline Foreman will immediately go to the leak area or dispatch an authorized representative to the leak area.

Oil discharges that create an emergency condition will require the Pipeline Foreman to request additional assistance from any or all of the CRCT supervisory personnel available in his work area.

The following procedure will be followed for emergency crude oil releases:

- Stop the discharge of oil. If the discharge is on a main line, station pumps can be remotely shut down from the pipeline office. If the discharge is on a gathering line, valves will be shut down manually.
- The pipeline maintenance crew will transport the emergency response trailer and vacuum truck to the discharge site.
- While the pipeline is being repaired, all available employees will contain the discharge to the smallest area possible. If the discharge is on land, dikes and berms will be constructed. If the discharge is on a water way, boom will be used to contain the discharge.
- The Pipeline Foreman and the Qualified Individual will make the decision to call in outside contractors if the discharge is too large for CRCT personnel to handle.
- After the pipeline has been repaired and the discharge contained, as much of the crude oil as possible will be picked up by vacuum truck and transported to a temporary holding tank.

- The Pipeline Foreman will make the decision on clean-up of residual crude oil (such as the use of skimmers or picking up contaminated soil).

Oil Spill Response Organizations

The Bartlesville and Winfield pipeline facilities have 25 employees. All employees have been trained in response operations and are available for response to a crude oil discharge. If a crude oil discharge occurs during normal working hours, the response personnel will be notified by cell phone. If a response is required after normal working hours, employees will be contacted by telephone and asked to report to the Bartlesville or Winfield maintenance yard.

In addition to response team members available at the Bartlesville and Winfield pipeline facilities, the Plainville, Kansas, pipeline facility can provide equipment and manpower within the tier times for crude oil discharge response operations:

If a crude oil spill response exceeds the equipment and manpower capabilities of the CRCT Oil Spill Response Team, a U.S. Coast Guard (USCG) classified Oil Spill Response organization (OSRO) will be utilized. Haz-Mat Response Inc., of Olathe, Kansas, is such a classified OSRO and will be the primary responder.

Response Activities and Resources

Identification and Availability of Equipment and Supplies

Response equipment is available on a 24-hour basis to respond to a worst case discharge of crude oil. CRCT has a wide range of response equipment available at the Bartlesville, Oklahoma, and Winfield, Kansas, maintenance yards. Extra response equipment such as boom and hay are stored at select station sites. If additional equipment and supplies are required, arrangements have been made with the Plainville, Kansas, pipeline facility to respond with manpower and supplies.

The following equipment and supplies are available at the Bartlesville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- 150 feet of wood fabricated oil boom
- Three 500-foot rolls of barbed wire
- One 2-inch portable centrifugal pump with 7-hp motor capable of moving 150 bbl of crude oil per hour
- One 1½-inch portable centrifugal pump with 4-hp motor capable of moving 75 bbl of crude oil per hour
- One 2-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 50 bbl of crude oil per hour
- One 2½-inch high pressure gear pump (gasoline engine driven) mounted on 2-wheel trailer capable of moving 60 bbl of crude oil per hour
- Two 2-ton welder, winch, and side boom trucks
- Four 2½-ton trucks with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil
- Twelve trucks with 180 bbl storage capacity. Trucks are equipped with 3-inch Roper pumps capable of picking up 300 bbl per hour of crude oil.
- Three ½-ton pickups equipped with hand tools
- One 1-ton pickup equipped with hand tools

- One backhoe with 20-inch bucket and front loader
- 750 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 5-inch absorbent boom
- One 12-foot Jon boat
- One 14-foot Jon boat
- One 18-foot Jon boat
- One 6-hp outboard boat motor
- One 10-hp outboard boat motor
- One 15-hp outboard boat motor
- One 50-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Two 4 x 4 all-terrain vehicles
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Winfield pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay
- Three 500-foot rolls of barbed wire
- One 200-foot roll of chicken wire
- One 2-inch portable centrifugal pump capable of moving 100 bbl per hour of crude oil
- One 2-inch high pressure gear pump (gasoline driven engine) mounted on 2-wheel trailer capable of moving 50 bbl per hour of crude oil
- Three 1½-inch high pressure gasoline driven gear pumps capable of moving 35 bbl per hour of crude oil
- One 2-ton truck equipped with welder, winch, and side boom
- One truck with 80 bbl vacuum tank. Trucks are capable of picking up 300 bbl per hour of crude oil.
- One 2-ton truck with portable 20 bbl tank, winch, and low pressure pump capable of picking up 50 bbl of crude oil per hour
- Four trucks with 180 bbl capacity equipped with 3-inch Roper pumps capable of moving 300 bbl per hour of crude oil
- Three ½-ton pickups equipped with hand tools
- 250 feet of 5-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 80 feet of 3-inch oil containment boom with 6-inch skirt and 4-inch diameter floats
- 400 feet of 5-inch absorbent boom
- One 14-foot Jon boat
- One 7½-hp outboard boat motor
- One oil skimmer rated at 35 gallons per minute
- Miscellaneous hand tools such as shovels, rakes, etc.

The following equipment and supplies are available at the Plainville pipeline yard and stations:

- Emergency clamps, half soles, and replacement pipe
- Two tons of hay

- Three power plants
- Three 500-foot rolls of barbed wire
- Four 100-foot rolls of chicken wire
- One 2-inch portable centrifugal pump with 5-hp motor capable of moving approximately 100 bbl of crude oil per hour.
- One air compressor
- Three 2-inch high pressure gear pumps (gasoline engine driven) mounted on skids. These pumps will move approximately 50 barrels of crude oil per hour.
- One 2-ton welder, winch, and side boom truck
- Two ½-ton pickups equipped with hand tools
- One backhoe with 20-inch bucket and front loader
- 250 feet of oil containment boom with 6-inch skirt and 4-inch diameter floats
- 450 feet of 5-inch absorbent boom
- One 14-foot Jon boat with 6-hp motor
- One oil skimmer rated at 20 gallon per minute
- Nineteen transport trucks with 180 bbl capacity each
- Miscellaneous hand tools such as shovels, rakes, etc.

The Bartlesville, Winfield, and Plainville pipeline facilities have sufficiently trained manpower available to operate all response equipment.

All response equipment can be mobilized and deployed within the tier times. Calculations and evaluation for EDRC, specific to Zone 9, are included on Table 4-1-B and 40 CFR 112.20, Appendix E Worksheet, located in this Section in the Zone 9 Tab. It is estimated that the Bartlesville pipeline owned equipment can be on the scene of any crude oil spill within one hour and the Winfield pipeline owned equipment can be on scene within three hours. It is estimated that the Plainville owned equipment and manpower could be on the scene of any crude oil spill within 12 hours.

Equipment Maintenance and Testing Procedures

All emergency response equipment, located at the Bartlesville, Winfield, and Plainville facilities, must be well maintained, tested, and inspected periodically. The following is a schedule for maintaining, testing, and inspection of equipment and supplies:

- All vehicles used for emergency response are also used on a daily basis for scheduled work activities. These vehicles must be maintained according to manufacturer's recommendations. Since these vehicles are used on a routine basis, they will not be required to be periodically tested.
- Equipment not used on a routine basis must be maintained according to manufacturer's recommendations and be inspected and tested every six months. Equipment which would fall into this category would be:
 - Centrifugal pumps
 - Air driven pumps
 - Air blowers
 - Outboard boat motors

Equipment and supplies which must be inspected every six months and repaired or replaced, if

necessary, will include the following:

- Boats
- Hay
- Oil containment boom
- Wire
- Emergency clamps and half soles
- Hand tools
- Emergency response trailer

It will be the responsibility of the Pipeline Foremen to appoint response employees to restock supplies and equipment and to perform all maintenance, inspection, and testing procedures.

Federal, State, and Local Agencies who would be Involved with Pollution Activities

In the event of a serious oil discharge, several individuals and organizations will need to be contacted. The following is the name and telephone numbers of individuals and organizations which might need to be called if the leak could affect their areas:

Discharges in Kansas

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802
EPA Region VII	(913) 551-7003
Kansas Dept. of Health and Env. (Montgomery County) (Topeka 24-hr number)	(620) 431-2390 (785) 296-1679
Montgomery County Sheriff	(620) 330-1260
Highway Patrol (Chanute)	(620) 431-2100
Highway Patrol (Wichita)	(620) 744-0451
Montgomery Co. Fire, Police, Ambulance	911
Local Emergency Planning Committee (Montgomery County)	(620) 330-1260
Kansas One Call (If calling from outside State of Kansas)	(316) 687-2102
Kansas One Call (If calling inside the State of Kansas)	811 or (800) 344-7233
Montgomery Co. Fire, Police, Ambulance	911
Caney Water Dept.	(620) 879-9801 or 879-2913

Discharges in Oklahoma

<u>Agency</u>	<u>Telephone Number</u>
National Response Center	(800) 424-8802

EPA Region VI	(866) 372-7745
Oklahoma Corporation Commission (Bristow Office) (Area Representative)	(918) 367-3396 (918) 807-0997 or (918) 697-3056
Oklahoma Dept. of Env. Quality	(800) 522-0206
Corp of Engineers (Hulah)	(918) 532-4334
Osage Co. Fire, Ambulance	(918) 287-4210
Washington County Sheriff	(918) 337-2800
Washington Co. Fire, Police, Ambulance	911
Osage Co. Sheriff	(918) 287-3131
Osage Co. Fire	(918) 287-4210
Local Emergency Planning Committee (Washington County) (Osage County)	(918) 336-2710 (918) 287-3131
Osage Indian Agency	(918) 287-5555
Oklahoma One Call	(800) 522-6543
Bartlesville Water Dept.	(918) 338-4282
Copan Water Dept.	(918) 532-4114
Barnsdall Water Dept.	(918) 847-2506
Pawhuska Water Dept.	(918) 287-3260
Osage County Rural Water Dist.	(918) 695-7402
Washington County Rural Water Dist.	(918) 336-0500
Hulah Water Dist.	(918) 336-0008

Worst Case Discharge Volume

The type of oil transported through this section of pipeline is sweet crude oil, at approximately 35.0 gravity.

In a worst case discharge, an estimated (b) (7)(F), (b) (3) of crude oil could be released based on the line fill calculation of the pipeline in this zone.

Method Used To Calculate Worst Case Discharge Volume

According to 49 CFR 194.105 (b), the WCD is defined as the largest volume in barrels of the following:

- [(Maximum release time + maximum shutdown time) x maximum flow rate] + largest line drainage volume after shutdown; OR

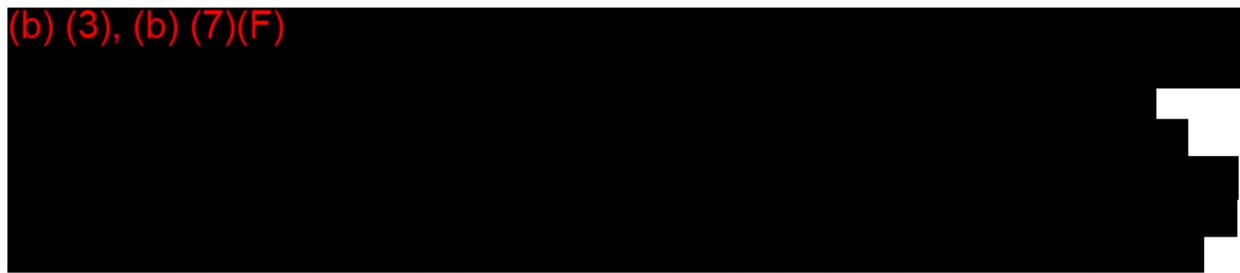
- Largest foreseeable discharge of pipe sections within response zone based on maximum historical discharge, if one exists: OR
- If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within secondary containment.

Under 49 CFR 194.105 (b) (4), operators may claim prevention credits to reduce the WCD volume by the following percentages:

- Secondary containment > 100% = 50% credit
- Built to API standards = 10% credit
- Overfill protection = 5% credit
- Testing/Cathodic protection = 5% credit
- Tertiary containment = 5% credit

The maximum allowable credit is 75 %.

(b) (3), (b) (7)(F)



Worst case discharge estimate calculations are determined by the following formula and assumptions:

(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)

Potentially Affected Public Drinking Water Intake, Lake, River, and Stream Within a Five Mile Radius of Line Section

(b) (7)(F), (b) (3)

Environmentally Sensitive Area Within a One Mile Radius of The Line Section.

The Caney River, Butler Creek, Bird Creek, Copan Lake, and the tributary waterways that feed them are recreation areas and are considered environmentally sensitive areas.

Table 2, included in this Section, presents the threatened and endangered species that may be present in the areas listed on Table 1. A map of the Zone 9 response locations and supporting information for sensitive habitats/areas is provided in this Section in the Zone 9 Tab.

Identification of Oil Product

The type of oil in this line section is crude oil, at approximately 35.0 gravity, and considered to be a sweet crude oil.

Safety Data Sheets

Included in this plan is a safety data sheet which complies with 29 CFR 1910.1200.

Coffeyville Resources Crude Transportation, LLC

P.O. Box 3516

411 NE Washington Boulevard
Bartlesville, Oklahoma 74006

918-333-4111



Zone 9

Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma

00028275-04

**Table 1 - Vulnerability Analysis
Facility Response Plan Zones 1 Through 9
Coffeyville Resources Crude Transportation, LLC
Bartlesville, Oklahoma**

Sensitive Area					Response Location								
Zone	State	County	Water Bodies	Sensitive Habitats/Areas (a)	Priority (b)	Site Number	Resources to Protect (c)	Protection Strategy (d)	On-Water Recovery Boom Requirement (feet) (e)	Sensitive Area Boom Requirement (feet)	Features	Latitude	Longitude
1	KS	Cowley	Winfield Lake	(b) (7)(F), (b) (3)	1	1	A, I, S	C R	1200	360	Boat Ramp (Timber Creek Marina)	(b) (7)(F), (b) (3)	
2	KS	Montgomery	Little Caney River		1	1 (A)	A, I, S	D R	1200	110	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	KS	Montgomery	Little Caney River	Copan Wildlife Area, T&E Habitat, Recreation	2	2	A, S	C R		300	Boat Ramp (Unnamed)		
	OK	Washington	Copan Lake	Copan Wildlife Management Area, Waterfowl Unit (refuge), Wetland Development Area, Tallgrass, T&E Species, Recreation	1	3	A, S	C R			Boat Ramp (Osage Plains)		
3 (f)	OK	Washington	Copan Lake	(b) (7)(F), (b) (3)	1 (f)	1 (A)	A, I, S	C R	1200	300	Boat Ramp (Washington Cove)	(b) (7)(F), (b) (3)	
	OK	Washington	Pooler Creek	Crosstimbers, Tributary to Copan Wildlife Management Area, T&E Species	3 (f)	2	A, S	C R			Shoreline/Water Access		
	OK	Washington	Cotton Creek	Crosstimbers, Copan Wildlife Management Area, T&E Species	3 (f)	3	A, S	D R			Shoreline/Water Access		
	OK	Washington	Copan Lake	Crosstimbers, Wildlife Management Area, T&E Species, Recreation	2 (f)	4	A, S	C R		Potential Lake Access			
	OK	Washington	Caney River	Crosstimbers, T&E Species, Recreation	3 (f)	5	A, S	C D R		Shoreline Access			
	OK	Washington	Caney River	Crosstimbers, Johnstone Park, Bird Sanctuary, T&E Species, Recreation, Commercial/Residential Area	1 (f)	6	A, P, S	C D R		290	Boat Ramp, Low Water Dam		
	OK	Washington	Caney River	Crosstimbers, Wesleyan College, T&E Species, Recreation	2 (f)	7	A, P, S	D R			Shoreline/Water Access		
4	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	1 (A)	A, I, P, S	C D R	1200	270	Shoreline/Water Access, Low Water Dams	(b) (7)(F), (b) (3)	
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat, Commercial/Residential Area	2	2	A, P, S	C D R			Shoreline/Water Access		
	OK	Nowata	Verdigris River	(b) (7)(F), (b) (3)	1	3 (B)	A, I, S	D R		290	Shoreline/Water Access		
	OK	Nowata	Upper Oologah Lake		1	4 (C, D)	A, I, S	D R		300	Bridge at US Highway 60, Shoreline/Water Access, Boat Launch		
	OK	Nowata	Upper Oologah Lake		1	5 (E)	A, I, S	C R		300	Boat Ramp (Double Creek)		
5	KS	Chautauqua	Caney River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch, Low Water Dam	(b) (7)(F), (b) (3)	
	OK	Osage	Caney River	Tallgrass Prairie, Hulah Public Hunting Area, T&E Species, Recreation	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Caney River	Tallgrass Prairie, Hulah State Waterfowl Refuge, Hulah Public Hunting Area, T&E Species, Recreation	1	3	A, S	C D R		290	Boat Ramp (Sportsman Cove)		
	OK	Osage	Hulah Lake	(b) (7)(F), (b) (3)	1	4 (A)	A, I, S	C R		300	Boat Ramp (Hulah Cove)		
6	KS	Butler	Walnut River	Recreation, T&E Species	3	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Cowley	Walnut River	Recreation, T&E Species	3	2	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	3	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species	3	4	A, S	D R			Shoreline/Water Access, Boat Launch		
	KS	Cowley	Walnut River	Recreation, T&E Species, Fairgrounds	2	5	A, P, S	D R			Boat Ramp (Fairgrounds)		
7	KS	Neosho	Neosho River	Recreation, T&E Species, T&E Habitat	2	1	A, S	C D R	1200		Shoreline/Water Access, Boat Launch	(b) (7)(F), (b) (3)	
	KS	Neosho	Neosho River	(b) (7)(F), (b) (3)	1	2 (A)	A, I, S	C D R		275	Shoreline/Water Access, Boat Launch (Highway 59 Bridge)		
	KS	Neosho	Neosho River		1	3 (B)	A, I, S	C D R		285	Shoreline/Water Access, Boat Launch		
	KS	Montgomery	Verdigris River	Recreation, T&E Species, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access, Boat Launch (former Turner Bridge)		
	KS	Montgomery	Elk River	Recreation, T&E Species	2	5	A, P, S	C D R			Shoreline/Water Access, Boat Launch (Highway 75 Bridge)		
	KS	Montgomery	Verdigris River	(b) (7)(F), (b) (3)	1	6 (C)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch		
8	OK	Osage	Salt Creek	Recreation, T&E Habitat, T&E Species	2	1	A, S	C D R	1200		Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Osage	Gray Horse Creek	Recreation, T&E Habitat, T&E Species	2	2	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Lucy Creek	Recreation, T&E Habitat, T&E Species	2	3	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Hominy Creek	Recreation, T&E Habitat	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Little Hominy Creek	Recreation, T&E Habitat	2	5	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Birch Creek	Recreation (Birch Lake)	2	6	A	C D R			Shoreline/Water Access		
	OK	Osage	Bird Creek	Recreation, T&E Habitat, T&E Species	2	7	A, P, S	C D R			Shoreline/Water Access		
9	KS	Montgomery	Mud Creek	(b) (7)(F), (b) (3)	1	1 (A)	A, I, S	C D R	1200	300	Shoreline/Water Access	(b) (7)(F), (b) (3)	
	OK	Washington	Little Caney River (Copan Lake)		1	2 (B)	A, I, S	C D R		300	Shoreline/Water Access, Boat Launch (Copan Lake)		
	OK	Washington	Caney River	Recreation, T&E Habitat, Bartlesville Parks	2	3	A, P, S	C D R			Shoreline/Water Access (CR W 1300 Bridge)		
	OK	Osage	Butler Creek	Recreation, T&E Habitat, T&E Species	2	4	A, S	C D R			Shoreline/Water Access		
	OK	Osage	Sand Creek	Recreation, Bartlesville Residential	1	5	A, P	C D R		300	Shoreline/Water Access		

a) Recreation: Includes camping, boating, fishing, swimming, water sports.
T&E Species: Federal or State designated or proposed threatened or endangered species. See Table 2.
T&E Habitat: Critical habitat for Federal or State designated threatened or endangered species. See Table 2.

b) Priority 1: Highest; primary resources protection.
Priority 2: Moderate; secondary resource protection.
Priority 3: Lowest; unprotected resources.

c) A = Recreation Area.
I = Water Intake.
P = Public Resources (School, Medical Facility, Residential Area, etc.)
S = Species or Habitat.

d) C = Containment Strategy.
D = Diversion Strategy.
R = Recovery Strategy.

e) Based on US DOT Office of Pipeline Safety recommendations for 300 feet of boom per skimmer. CRCT overall response capability is 1,410 feet of boom.

f) These segments of pipeline are currently out-of-service, have been drained and purged, and currently do not represent the threat of release. However, should operations be resumed in the future, this response zone is considered at risk to receive significant and substantial harm as it is a source of public drinking water, a state recreational area, and a state wildlife management area.

Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>
Allen	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	N/A
	Butterfly Mussel	T	N	N/A
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Flat Floater Mussel	E	N	N/A
	Flutedshell Mussel	T	N	N/A
	Neosho Madtom	T	T	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	N/A
	Peregrine Falcon	E	E	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	N/A
	Redspot Chub	T	N	N/A
	Snowy Plover	T	N	N/A
	Western Fanshell Mussel	E	N	N/A
Butler	American Burying Beetle	E	E	N/A
	Bald Eagle	T	T	6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	T	N	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Sharp Hornsnail	T	N	N/A
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	6
	Whooping Crane	E	E	N/A
Chautauqua	American Burying Beetle	E	E	5
	Bald Eagle	T	T	N/A
	Eastern Spotted Skunk	T	N	5
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	N/A
	Ouachita Kedneyshell Mussel	T	N	5
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Snowy Plover	T	N	N/A
Cowley	American Burying Beetle	E	E	N/A
	Arkansas Darter	T	C	1, 6
	Arkansas River Shiner	E	T	1, 6
	Arkansas River Speckled Chub	E	N	1, 6
	Bald Eagle	T	T	1, 6
	Eastern Spotted Skunk	T	N	N/A
	Eskimo Curlew	E	E	N/A
	Least Tern	E	E	N/A
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Silver Chub	E	N	1, 6
	Snowy Plover	T	N	N/A
	Topeka Shiner	T	E	N/A
Whooping Crane	E	E	N/A	
Montgomery	American Burying Beetle	E	E	2, 4, 7, 9
	Bald Eagle	T	T	2, 4, 7, 9
	Butterfly Mussel	T	N	2, 4, 7, 9
	Common Map Turtle	T	N	N/A
	Eastern Spotted Skunk	T	N	2, 4, 7, 9
	Eskimo Curlew	E	E	N/A
	Flutedshell Mussel	T	N	N/A
	Least Tern	E	E	N/A
	Neosho Mucket Mussel	E	N	2, 4, 7, 9
	Ouachita Kedneyshell Mussel	T	N	2, 4, 7, 9
	Peregrine Falcon	E	N	N/A
	Piping Plover	T	T	N/A
	Rabbitsfoot Mussel	E	N	2, 4, 7, 9
	Snowy Plover	T	N	N/A
Western Fanshell Mussel	E	N	2, 4, 7, 9	

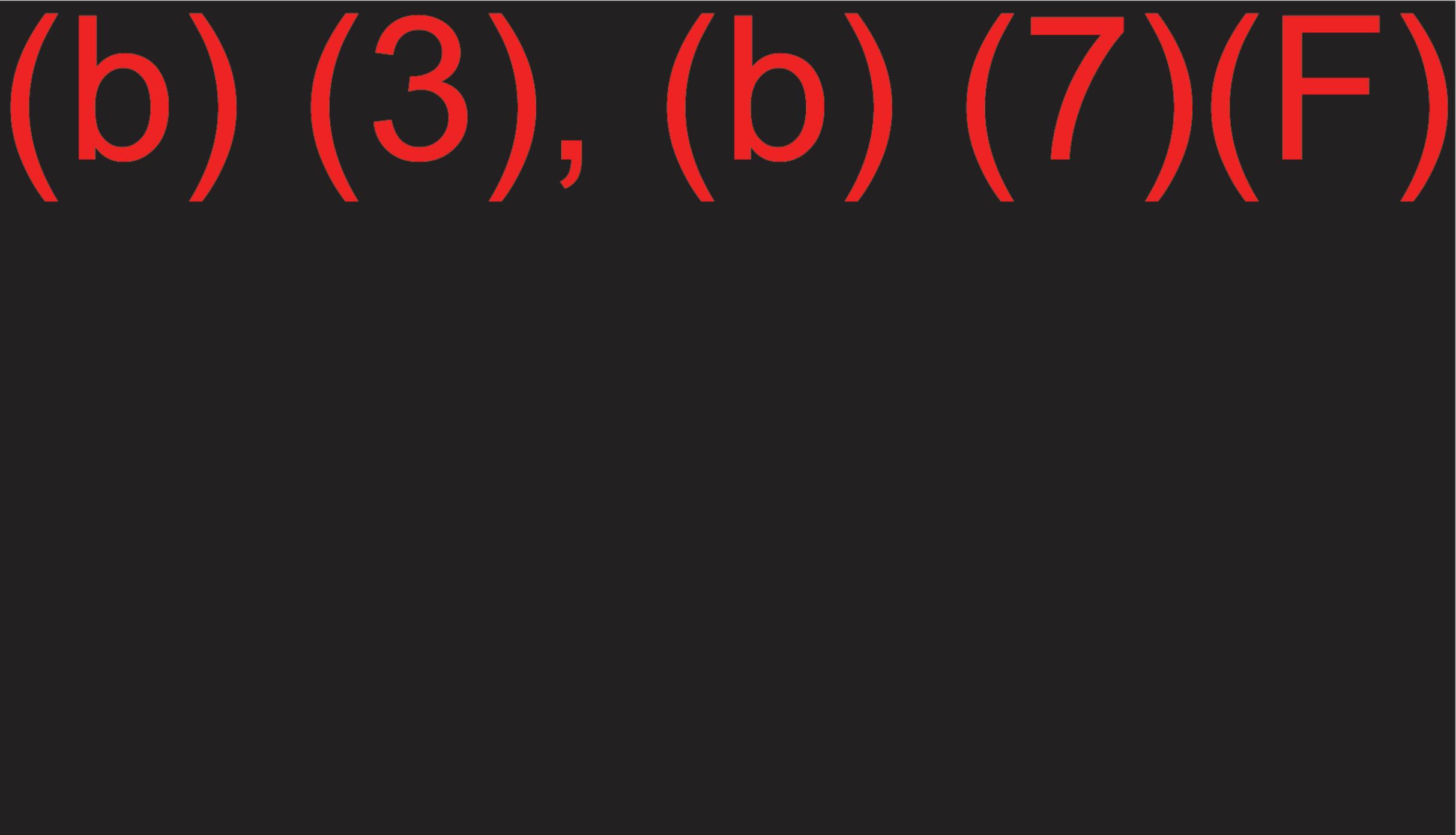
Table 2
Bartlesville Response Zones 1 through 9
Threatened and Endangered Species and Critical Habitat

<u>County in Kansas</u>	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>				
Neosho	American Burying Beetle	E	E	N/A				
	Bald Eagle	T	T	7				
	Butterfly Mussel	T	N	7				
	Common Map Turtle	T	N	N/A				
	Eastern Spotted Skunk	T	N	N/A				
	Eskimo Curlew	E	E	N/A				
	Flat Floater Mussel	E	N	N/A				
	Flutedshell Mussel	T	N	7				
	Least Tern	E	E	N/A				
	Neosho Madtom	T	T	7				
	Neosho Mucket Mussel	E	N	7				
	Ouachita Kedneyshell Mussel	T	N	7				
	Peregrine Falcon	E	N	N/A				
	Piping Plover	T	T	N/A				
	Rabbitsfoot Mussel	E	N	7				
	Redspot Chub	T	N	N/A				
	Snowy Plover	T	N	N/A				
	Western Fanshell Mussel	E	N	N/A				
	Wilson	American Burying Beetle	E	E	7			
		Bald Eagle	T	T	N/A			
Butterfly Mussel		T	N	N/A				
Common Map Turtle		T	N	N/A				
Eastern Spotted Skunk		T	N	7				
Eskimo Curlew		E	E	N/A				
Flutedshell Mussel		T	N	N/A				
Least Tern		E	E	N/A				
Neosho Mucket Mussel		E	N	N/A				
Ouachita Kedneyshell Mussel		T	N	N/A				
Peregrine Falcon		E	N	N/A				
Piping Plover		T	T	N/A				
Rabbitsfoot Mussel		E	N	N/A				
Snowy Plover		T	N	N/A				
Western Fanshell Mussel		E	N	N/A				
<u>County in Oklahoma</u>		Nowata	<u>Species</u>	<u>State Status</u>	<u>Federal Status</u>	<u>Response Zone with Critical Habitat for Designated Species</u>		
	Bald Eagle						AD, T	N/A
	Neosho Mucket Mussel						E	4
	Peregrine Falcon						DM	N/A
	Piping Plover	E, T	4					
	Osage	Bald Eagle		AD, T	N/A			
		Least Tern		E	N/A			
		Neosho Mucket Mussel		E	8			
		Peregrine Falcon		DM	N/A			
		Piping Plover		E	8			
	Whooping Crane		E, EXPN	8				
	Washington	Bald Eagle		AD, T	N/A			
		Neosho Mucket Mussel		E	9			
		Peregrine Falcon		DM	N/A			
		Piping Plover		T	9			
	Whooping Crane		E, EXPN	N/A				

E -- Endangered
T -- Threatened
EXPN, XN -- Experimental Population, Non-Essential
C -- Candidate Taxon, Ready for Proposal
DM -- Delisted Taxon, Recovered, Being Monitored First Five Years
AD -- Proposed Delisting
N/A -- Not Applicable.

COPAN LAKE

PUBLIC HUNTING AREA



H

PUBLIC USE AREAS

- 1 Washington Cove
- 2 Copan Point
- 3 Anglers Point
- 4 Post Oak Park
- 5 Osage Plains

LEGEND

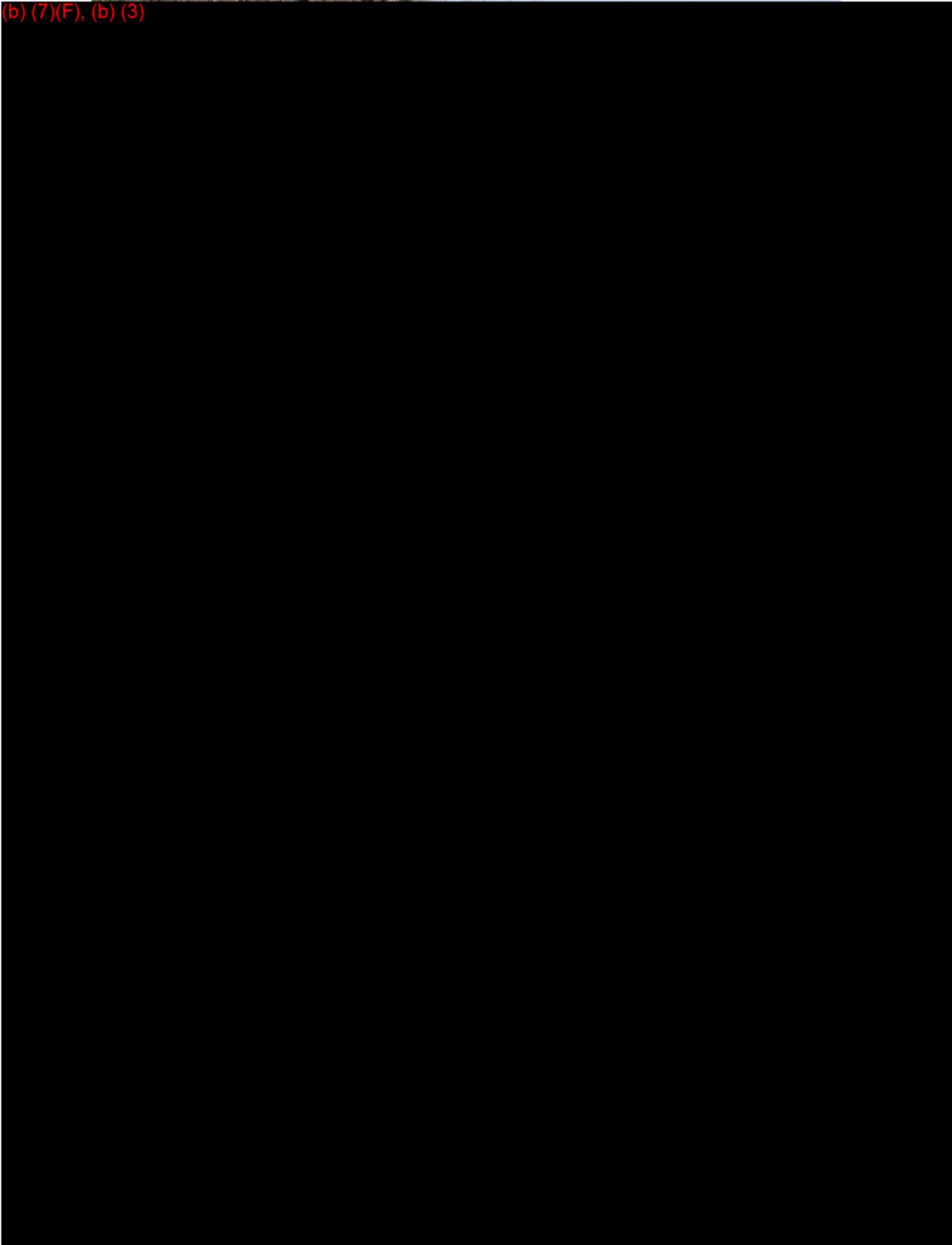
- Paved Road
- Improved Road
- Dirt Road
- Project Boundary
- Corps Areas Open For Hunting
- State Areas Open For Hunting
- See Restrictions

RESERVOIR DATA
 Top of conservation pool El. 710.0
 30 shoreline miles at El. 710.0
 Total project land & water acreage 15932

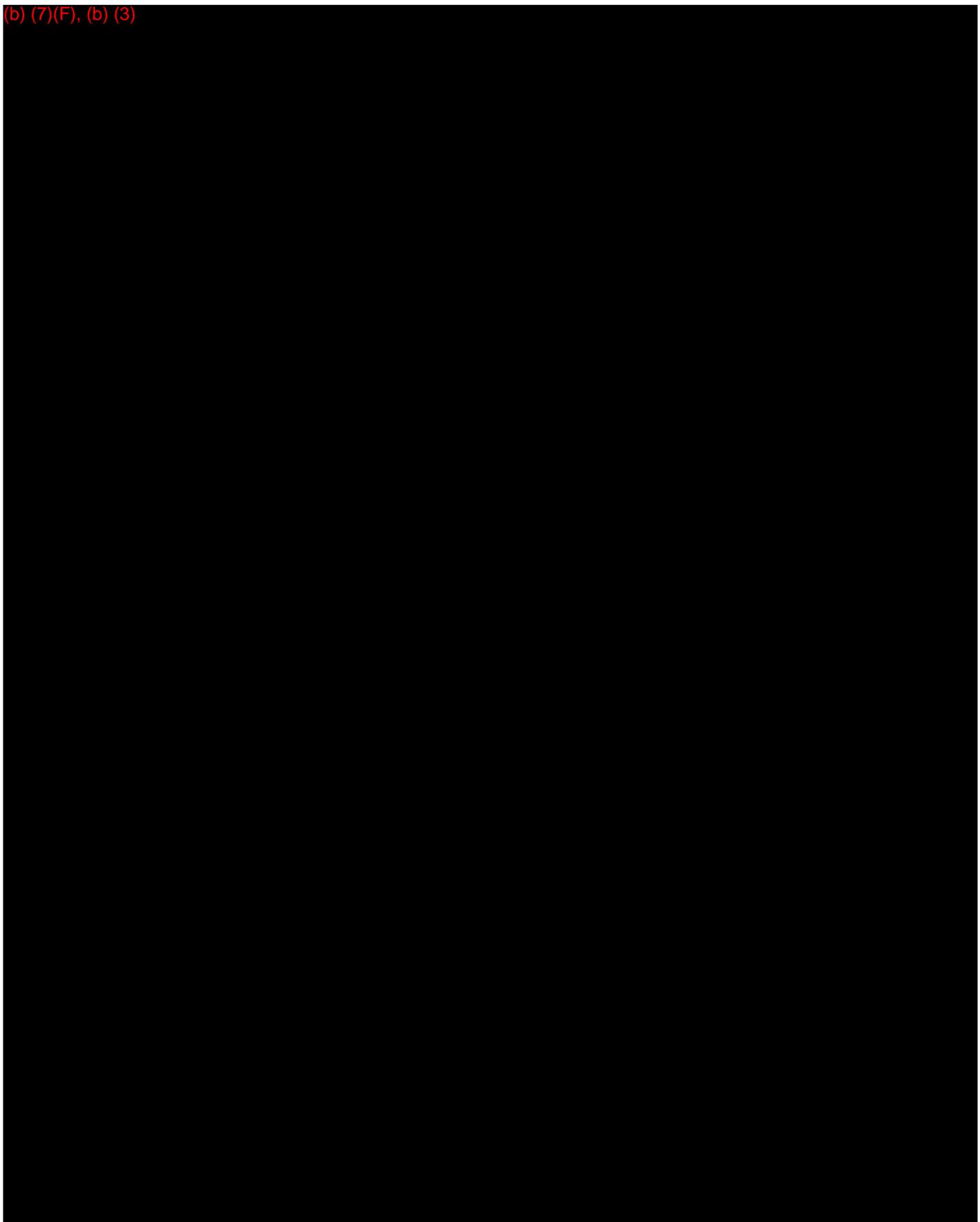


**US Army Corps
of Engineers**
Tulsa District

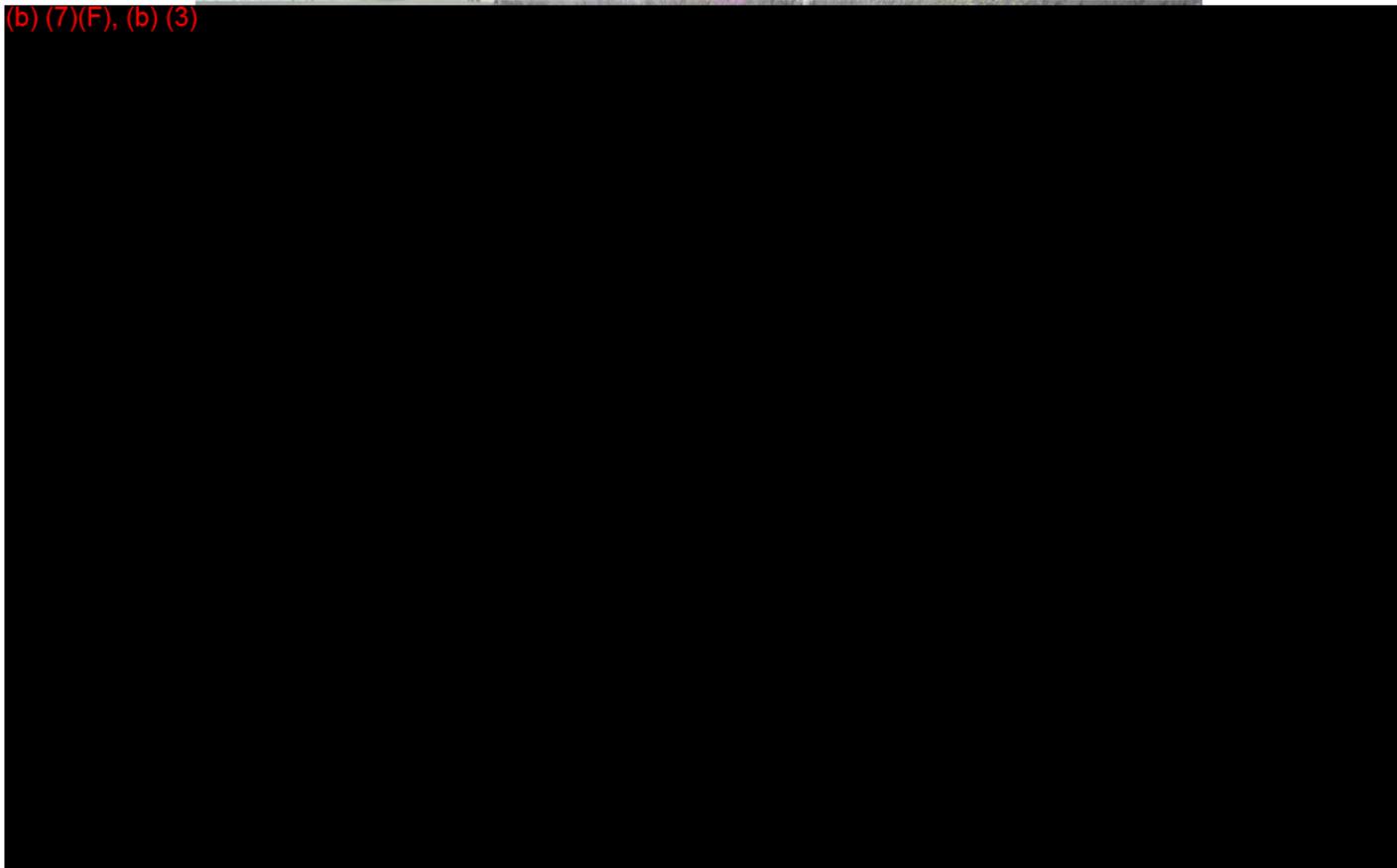
(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)





Species In Need of Conservation Known or Likely to Occur in Montgomery County, Kansas

Alligator Snapping Turtle - *Macrolemys temminckii* (Troost)

Black Tern - *Chlidonias niger* (Linnaeus)

Cerulean Warbler - *Dendroica cerulea* (Wilson)

Creeper Mussel - *Strophitus undulatus* (Say)

Deertoe Mussel - *Truncilla truncata* (Rafinesque)

Eastern Chipmunk - *Tamias striatus* (Linnaeus)

Eastern Hognose Snake - *Heterodon platirhinos* (Latreille)

Fawnsfoot Mussel - *Truncilla donaciformis* (Lea)

Ferruginous Hawk - *Buteo regalis* (Gray)

Glossy Snake - *Arizona elegans* (Kennicott)

Highfin Carpsucker - *Carpionodes velifer* (Rafinesque)

Prairie Mole Cricket - *Gryllotalpa major* (Sauss)

Reg-Shouldered Hawk - *Buteo lineatus* (Gmelin)

River Redhorse - *Moxostoma carinatum* (Cope)

Round Pigtoe Mussel - *Pleurobema coccineum* (Conrad)

Short-Eared Owl - *Asio flammeus* (Pontoppidan)

Slough Darter - *Etheostoma gracile* (Girard)

Wabash Pigtoe Mussel - *Fusconaia flava* (Rafinesque)

(Continued)

Montgomery County, Kansas (cont.)

Wartyback Mussel - *Quadrula nodulata* (Rafinesque)

Washboard Mussel - *Megalonaias nervosa* (Rafinesque)

Yellow Sandshell Mussel - *Lampsilis teres* (Rafinesque)



**THREATENED AND ENDANGERED SPECIES
KNOWN OR LIKELY TO OCCUR
IN
MONTGOMERY COUNTY, KANSAS**

American Burying Beetle (*Nicrophorus americanus*) - Endangered: Known to occur in suitable habitat. Prefers loose sandy/clay loam soils in grasslands and along upland woodland edges. *Critical habitat has been designated.* Endangered nationally.

Bald Eagle (*Haliaeetus leucocephalus*) - Threatened: Known to occur as a regular seasonal transient or winter resident. *Critical habitat has been designated.* Threatened nationally.

Butterfly Mussel (*Ellipsaria lineolata*) - Threatened: An obligate riverine mussel preferring clean water with good current over gravel substrate. Currently has been documented in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

Common Map Turtle (*Graptemys geographica*) - Threatened: Semi-aquatic in nature, this turtle may occur in large streams, lakes and oxbows having abundant basking sites, slow to moderate current, soft substrate with much aquatic vegetation, and tree-lined banks. Historically occurred throughout eastern Kansas south of the Kansas River and east of the Flint Hills.

Eastern Spotted Skunk (*Spilogale putorius interrupta*) - Threatened: Known to occur near woodland edges in grasslands with shrub clumps or rock outcrops, and in abandoned farmsteads where old buildings or debris piles provide cover. *Critical habitat has been designated.*

Eskimo Curlew (*Numenius borealis*) - Endangered: Formerly a regular spring migrant using plowed fields, heavily grazed and burned grasslands. Was most common in the eastern 2/3 of the state, but has not been verified in Kansas since 1902. A few birds may still migrate through the state. Endangered nationally.

Flutedshell Mussel (*Lasmigona costata*) - Threatened: An obligate riverine mussel dependent upon clean riffles comprised of small to medium size gravel with clean water having moderate current.

Least Tern (*Sterna antillarum*) - Endangered: Known to occur as an uncommon seasonal transient or summer visitant. Endangered nationally.

Neosho Mucket Mussel (*Lampsilis rafinesqueana*) - Endangered: An obligate riverine mussel preferring shallow clean-flowing water over a substrate of fine to medium size gravel. Currently known in much reduced numbers in the Verdigris River. *Critical habitat has been designated.*

(continued)

Montgomery Co. Threatened & Endangered Species - Page 2

Ouachita Kidneyshell Mussel (*Ptychobranhus occidentalis*) - Threatened: An obligate riverine mussel requiring clean-flowing water over gravel substrate. Known to occur at much reduced numbers in main stems and major tributaries of the Verdigris River. ***Critical habitat has been designated.***

Peregrine Falcon (*Falco peregrinus*) - Endangered: May occur as an uncommon seasonal transient or winter visitant. Prefers areas with large concentrations of waterfowl.

Piping Plover (*Charadrius melodus*) - Threatened: May occur as a rare seasonal transient at sparsely vegetated shorelines of stream, marshes, or impoundments. Threatened nationally.

Rabbitsfoot Mussel (*Quadrula cylindrica cylindrica*) - Endangered: A riverine mussel requiring clear streams with sandy gravel substrates and moderate currents. Currently known in the Verdigris River. ***Critical habitat has been designated.***

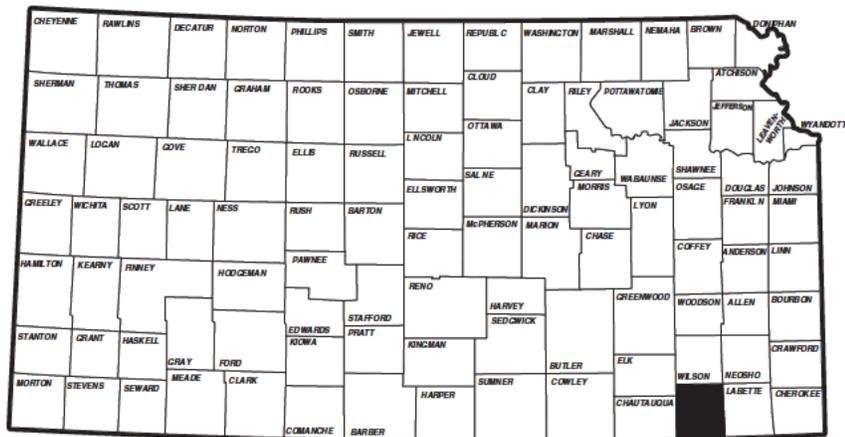
Snowy Plover (*Charadrius alexandrinus*) - Threatened: May occur as an occasional seasonal transient and summer visitant at sparsely vegetated wetlands and impoundment shorelines.

Western Fanshell Mussel (*Cyprogenia aberti*) - Endangered: An obligate riverine mussel found in mud, sand, gravel, and cobble substrate, generally associated with riffles with less than three feet of water depth. Only scattered individuals have been recently documented in the Verdigris River. ***Critical habitat has been designated.***

White-faced Ibis (*Plegadis chihi*) - Threatened: May occur as an occasional seasonal or summer visitant at wetlands and impoundments.

MONTGOMERY COUNTY

COUNTY LOCATOR MAP



STATUS KEY

THR = Threatened

END = Endangered

SNC = Species In Need of Conservation

CAN = Candidate Listing

NA = Not Applicable

THREATENED & ENDANGERED (T&E) SPECIES

American Burying Beetle *Nicrophorus americanus*
State: END Federal: END Critical Habitat: YES

Bald Eagle *Haliaeetus leucocephalus*
State: THR Federal: THR Critical Habitat: YES

Butterfly Mussel *Ellipsaria lineolata*
State: THR Federal: NA Critical Habitat: YES

Common Map Turtle *Graptemys geographica*
State: THR Federal: NA Critical Habitat: NO

Eastern Spotted Skunk *Spilogale putorius*
State: THR Federal: NA Critical Habitat: YES

Eskimo Curlew *Numenius borealis*
State: END Federal: END Critical Habitat: NO

Flutedshell Mussel *Lasmigona costata*
State: THR Federal: NA Critical Habitat: NO

Least Tern *Sterna antillarum*
State: END Federal: END Critical Habitat: NO

Neosho Mucket Mussel *Lampsilis rafinesqueana*
State: END Federal: NA Critical Habitat: YES

Ouachita Kidneyshell Mussel *Pychobranchus occidentalis*
State: THR Federal: NA Critical Habitat: YES

Peregrine Falcon *Falco peregrinus*
State: END Federal: NA Critical Habitat: NO

Piping Plover *Charadrius melodus*
State: THR Federal: THR Critical Habitat: NO

Rabbitsfoot Mussel *Quadrula cylindrica*
State: END Federal: NA Critical Habitat: YES

Snowy Plover *Charadrius alexandrinus*
State: THR Federal: NA Critical Habitat: NO

Western Fanshell Mussel *Cyprogenia aberti*
State: END Federal: NA Critical Habitat: YES

SPECIES IN NEED OF CONSERVATION (SINC)

Alligator Snapping Turtle *Macrochelys temminckii*
State: SNC Federal: NA Critical Habitat: NA

Black Tern *Chlidonias niger*
State: SNC Federal: NA Critical Habitat: NA

Brindled Madtom *Noturus miurus*
State: SNC Federal: NA Critical Habitat: NA

Cerulean Warbler *Dendroica cerulea*
State: SNC Federal: NA Critical Habitat: NA

Creeper Mussel *Strophitus undulatus*
State: SNC Federal: NA Critical Habitat: NA

Deertoe Mussel *Truncilla truncata*
State: SNC Federal: NA Critical Habitat: NA

Eastern Hognose Snake *Heterodon platirhinos*
State: SNC Federal: NA Critical Habitat: NA

Fawnsfoot Mussel *Truncilla donaciformis*
State: SNC Federal: NA Critical Habitat: NA

Ferruginous Hawk *Buteo regalis*
State: SNC Federal: NA Critical Habitat: NA

Glossy Snake *Arizona elegans*
State: SNC Federal: NA Critical Habitat: NA

Highfin Carpsucker *Carpiodes velifer*
State: SNC Federal: NA Critical Habitat: NA

Prairie Mole Cricket *Gryllotalpa major*
State: SNC Federal: NA Critical Habitat: NA

Reg-Shouldered Hawk *Buteo lineatus*
State: SNC Federal: NA Critical Habitat: NA

River Redhorse *Moxostoma carinatum*
State: SNC Federal: NA Critical Habitat: NA

Round Pigtoe Mussel *Pleurobema coccineum*
State: SNC Federal: NA Critical Habitat: NA

Short-eared Owl *Asio flammeus*
State: SNC Federal: NA Critical Habitat: NA

Slough Darter *Etheostoma gracile*
State: SNC Federal: NA Critical Habitat: NA

Wabash Pigtoe Mussel *Fusconaia flava*
State: SNC Federal: NA Critical Habitat: NA

Wartyback Mussel *Quadrula nodulata*
State: SNC Federal: NA Critical Habitat: NA

Washboard Mussel *Megaloniais nervosa*
State: SNC Federal: NA Critical Habitat: NA

Yellow Sandshell Mussel *Lampsilis teres*
State: SNC Federal: NA Critical Habitat: NA

Federally Endangered, Threatened, Proposed, and Candidate Species in Oklahoma

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>Birds</u>		
<i>Vermivora bachmanii</i>	Bachman's warbler	LE-EX
<i>Vireo atricapilla</i>	Black-capped vireo	LE
<i>Numenius borealis</i>	Eskimo curlew	LE-EX
<i>Sterna antillarum</i>	Interior least tern	LE
<i>Campephilus principalis</i>	Ivory-billed woodpecker	LE-EX
<i>Tympanuchus pallidicinctus</i>	Lesser prairie chicken	PT
<i>Charadrius melodus</i>	Piping plover	LT
<i>Anthus spragueii</i>	Sprague's pipit	C
<i>Picoides borealis</i>	Red-cockaded woodpecker	LE
<i>Grus americana</i>	Whooping crane	LE
<u>Fishes</u>		
<i>Etheostoma cragini</i>	Arkansas darter	C
<i>Notropis girardi</i>	Arkansas River shiner	LT
<i>Percina pantherina</i>	Leopard darter	LT
<i>Noturus placidus</i>	Neosho madtom	LT
<i>Amblyopsis rosae</i>	Ozark cavefish	LT
<u>Insects</u>		
<i>Nicrophorus americanus</i>	American burying beetle	LE
<u>Mammals</u>		
<i>Mustela nigripes</i>	Black-footed ferret	LE-EX
<i>Myotis grisescens</i>	Gray bat	LE
<i>Canis lupus</i>	Gray wolf	LE-EX
<i>Ursus arctos horribilis</i>	Grizzly bear	LT-EX
<i>Myotis sodalis</i>	Indiana bat	LE
<i>Corynorhinus townsendii ingens</i>	Ozark big-eared bat	LE
<i>Canis rufus</i>	Red wolf	LE-EX
<u>Mussels</u>		
<i>Lampsilis rafinesqueana</i>	Neosho mucket mussel	PE
<i>Arkansia wheeleri</i>	Ouachita rock-pocketbook mussel	LE
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot mussel	PT
<i>Leptodea leptodon</i>	Scaleshell mussel	LE
<i>Quadrula fragosa</i>	Winged mapleleaf mussel	LE
<u>Reptiles</u>		
<i>Alligator Mississippiensis</i>	American alligator	LT-SA

Plants

<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT-EX
<i>Platanthera praeclara</i>	Western prairie fringed orchid	LT-EX
<i>Ptilimnium nodosum</i>	Harperella	LE

Key

LE	Listed endangered
LT	Listed threatened
PE	Proposed Endangered
PT	Proposed threatened
EX	Believed to be extirpated in Oklahoma
SA	Endangered due to similarity of appearance to other listed species.
C	Candidate (The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities).

Last Updated: February 4, 2013

Prepared by U.S. Fish and Wildlife Service, Oklahoma Ecological Services Office

County by County List of Endangered and Threatened Species

Adair County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Long-nosed Darter (*Percina nasuta*) – endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed threatened and endangered in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Alfalfa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Whooping Crane (*Grus americana*) - endangered

Atoka County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Beaver County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Whooping Crane (*Grus americana*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Beckham County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Blaine County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Bryan County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Caddo County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Canadian County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Carter County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cherokee County**State-listed Threatened and Endangered Species:**

- Neosho Mucket (*Lampsilis rafinesqueana*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Choctaw County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Scaleshell (*Leptodea leptodon*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Cimarron County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Cleveland County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Coal County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered

Comanche County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Black-capped Vireo (*Vireo atricapillus*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Cotton County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered

Craig County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangered
 Neosho Madtom (*Noturus placidus*) – threatened
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Creek County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Custer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Delaware County

State-listed Threatened and Endangered Species:

- Neosho Mucket (*Lampsilis rafinesqueana*) – endangered
- Oklahoma Cave Crayfish (*Cambarus tartarus*) - endangered

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered
- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Dewey County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Ellis County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Garfield County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Garvin County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Grady County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Grant County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Greer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harmon County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Harper County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Haskell County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Hughes County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Jackson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Jefferson County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Johnston County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Kay County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Kingfisher County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened

Kiowa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Black-capped Vireo (*Vireo atricapillus*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Latimer County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

LeFlore County

State-listed Threatened and Endangered Species:

- Black-sided Darter (*Percina maculata*) -threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

Lincoln County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Logan County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Love County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Major County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Marshall County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Mayes County**State-listed Threatened and Endangered Species:**

None

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Gray Bat (*Myotis grisescens*) – endangered
- Piping Plover (*Charadrius melodus*) – threatened
- Ozark Cavefish (*Amblyopsis rosae*) - threatened
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

McClain County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

McCurtain County**State-listed Threatened and Endangered Species:**

- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Red-cockaded Woodpecker (*Picoides borealis*) - endangered
- Ouachita Rock Pocketbook (*Arkansia wheeleri*) – endangered
- Scaleshell (*Leptodea leptodon*) - endangered
- Winged Mapleleaf (*Quadrula fragosa*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Leopard Darter (*Percina pantherina*) - threatened

McIntosh County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) - endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Murray County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered

Muskogee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Noble County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Nowata County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*) – endangered; historic occurrence in Verdigris River

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered

Piping Plover (*Charadrius melodus*) - threatened

Okfuskee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Oklahoma County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Okmulgee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Piping Plover (*Charadrius melodus*) - threatened

Osage County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Ottawa County

State-listed Threatened and Endangered Species:

Neosho Mucket (*Lampsilis rafinesqueana*)

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Gray Bat (*Myotis grisescens*) – endangered

Ozark Big-eared Bat (*Corynorhinus (= Plecotus) townsendii ingens*) - endangered

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) – threatened

Neosho Madtom (*Noturus placidus*) – threatened

Ozark Cavefish (*Amblyopsis rosae*) - threatened

Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Pawnee County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered

Piping Plover (*Charadrius melodus*) - threatened

Payne County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangered

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pittsburg County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) – endangered
 Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pontotoc County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened
 Arkansas River Shiner (*Notropis girardi*) – threatened

Pottawatomie County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Interior Least Tern (*Sterna antillarum*) - endangered
 Piping Plover (*Charadrius melodus*) - threatened

Arkansas River Shiner (*Notropis girardi*) – threatened**Pushmataha County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

American Burying Beetle (*Nicrophorus americanus*) - endangeredIndiana Bat (*Myotis sodalis*) - endangeredInterior Least Tern (*Sterna antillarum*) - endangeredRed-cockaded Woodpecker (*Picoides borealis*) - endangeredOuachita Rock Pocketbook (*Arkansia wheeleri*) – endangeredScaleshell (*Leptodea leptodon*) - endangeredWinged Mapleleaf (*Quadrula fragosa*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedLeopard Darter (*Percina pantherina*) - threatened**Roger Mills County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

Whooping Crane (*Grus americana*) – endangeredInterior Least Tern (*Sterna antillarum*) - endangeredPiping Plover (*Charadrius melodus*) - threatenedArkansas River Shiner (*Notropis girardi*) – threatenedLesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation**Rogers County**

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Seminole County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened

Sequoyah County

State-listed Threatened and Endangered Species:

- Long-nosed Darter (*Percina nasuta*) - endangered
- Black-sided Darter (*Percina maculata*) - threatened

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Indiana Bat (*Myotis sodalis*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Stephens County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Texas County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Mountain Plover (*Charadrius montanus*) – candidate species under evaluation

Tillman County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Tulsa County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact

the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- American Burying Beetle (*Nicrophorus americanus*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Wagoner County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Washington County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Piping Plover (*Charadrius melodus*) - threatened

Washita County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered

Woods County

State-listed Threatened and Endangered Species:

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation

Woodward County**State-listed Threatened and Endangered Species:**

none

Federal-listed Threatened and Endangered Species:

Official county lists of federally threatened and endangered species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Please contact the U.S. Fish and Wildlife Service for the most accurate and current information. Federally listed endangered and threatened species in this county may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened
- Arkansas River Shiner (*Notropis girardi*) – threatened
- Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) – candidate species under evaluation
- Arkansas Darter (*Etheostoma cragini*) – candidate species under evaluation

Table 4-1-B

Zone 9
 Effective Daily Recovery Capacity Evaluation
 Coffeyville Resources Crude Transportation, LLC.
 Bartlesville Facility Response Plan
 Bartlesville, Oklahoma (a)

Location	Item	Total Quantity Identified	Tank Capacity (bb)	Vacuum Recovery Rate (bph)	Average Skimmer Recovery Rate (bph)	Tier 1 Response Quantity (e)	Tier 2 Response Quantity (f)	Tier 3 Response Quantity (g)	Tier 1 EDRC (c) (h) (bpd)	Tier 2 EDRC (c) (h) (bpd)	Tier 3 EDRC (c) (h) (bpd)
CRCT Owned Resources											
CRT-Phi Ipeburg Terminal	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
CRCT-Plainville Station	Transport with pump	25	(b) (7)(F), (b) (3)		43						
CRCT-Plainville Station	Skimmer	1	(b) (7)(F), (b) (3)								
CRCT-Winfield Office	Vacuum Truck	1	(b) (7)(F), (b) (3)	300							
CRCT-Winfield Office	Transport with pump	25	(b) (7)(F), (b) (3)		28						
CRCT-Winfield Office	Skimmer	1	(b) (7)(F), (b) (3)								
CRCT-Bartlesville Station	Vacuum Truck	4	(b) (7)(F), (b) (3)	300							
CRCT-Bartlesville Station	Transport with pump	25	(b) (7)(F), (b) (3)		50						
CRCT-Bartlesville Station	Skimmer	1	(b) (7)(F), (b) (3)								
CRCT (all stations)	Skimmer	1	(b) (7)(F), (b) (3)		71.5						
Contracted Resources (b)											
Haz-Mat - Wichita, KS	Skimmer	3			50						
Haz-Mat - North Platte, NE	Skimmer	3			80						
Haz-Mat - Kansas City, MO	Skimmer	7			70						

Skimmer Total Quantity	(b) (7)(F), (b) (3)
Vacuum Truck Total Quantity	(b) (7)(F), (b) (3)
Transport Total Quantity	(b) (7)(F), (b) (3)

Sufficient contracted or owned equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

Identified Resources: Non Contracted (b)											
Hertel - Hays, KS	Vacuum Truck	1	(b) (7)(F), (b) (3)	300		(b) (7)(F), (b) (3)					
Hertel - Hays, KS	Skimmer	1	(b) (7)(F), (b) (3)		25						
ACME - Tulsa, OK	Skimmer	4	(b) (7)(F), (b) (3)		80						
Veolia - Kansas City, MO	Vacuum Truck	6	(b) (7)(F), (b) (3)	300							
Veolia - Kansas City, MO	Skimmer	1	(b) (7)(F), (b) (3)		80						
A Clean Environment - Tulsa, OK	Skimmer	6	(b) (7)(F), (b) (3)		245						

Skimmer Total Quantity	(b) (7)(F), (b) (3)
Vacuum Truck Total Quantity	(b) (7)(F), (b) (3)
Transport Total Quantity	(b) (7)(F), (b) (3)

Sufficient identified equipment to operate at recovery rate of skimmers (YES or NO) (i) YES YES YES

- a) EDRC Effective Daily Recovery Capacity.
- CRCT Coffeyville Resources Crude Transportation, LLC.
- CRT Coffeyville Resources Terminal, LLC.
- bpd barrels per day.
- bph barrels per hour.
- hr. hour.
- b) Haz-Mat Haz-Mat Response, Inc., Olathe, KS.
- Hertel Hertel Tank Service, Inc., Hays, KS.
- ACME ACME Environmental Spill Response Resources, Tulsa, OK.
- Veolia Veolia Environmental Services, Kansas City, MO.
- A Clean Environment, Tulsa, OK.
- c) Per Appendix E, 40 CFR 112.20, Section 6.2.2, for devices in which the pump limits the throughput of liquid, throughput rate shall be calculated using the pump capacity. Throughput of skimmers used to calculate EDRC rates.
- d) Calculated On-Water Planning Volume evaluation based on Appendix E, 40 CFR 112.20, Section 5.4. Calculated planning volume does not exceed applicable CAP values specified in Part IV; therefore, identification of additional resources is not required.
- e) Quantity identified available for response within Tier 1 response time of 12 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- f) Quantity identified available for response within Tier 2 response time of 36 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified.
- g) Quantity identified available for response within Tier 3 response time of 60 hrs. to response zone. Assumes CRT can reasonably obtain the quantities specified within the response time specified. Fu I quantity identified available for Tier 3 Response.
- h) Per Appendix E, 40 CFR 112.20, Section 6.3.1, calculated EDRC under alternative presented in Section 6.3
 - R D x U, where
 - R—Effective daily recovery capacity;
 - D—Average Oil Recovery Rate in barrels per hour (Item 26 in F 808-83; Item 13.2.16 in F 631-99; or actual performance data); and
 - U—Hours per day that equipment can operate under discharge conditions.
- i) CRT can sustain recovery operations for 12 hours per day.
- j) Summation of skimmer rate (bpd) based on R D x U.
- k) Summation of vacuum truck rate (bpd) based on R D x U.
- l) Summation of transport rate based on R D x U. Assumes 6 hrs for travel, load, and unload.
- m) Sufficient equipment to support continuous skimmer operation at rated capacity based vacuum truck rate and transport rate.

EDRC Contracted Resources CAP Requirement			
CRCT Owned and Contracted EDRC:	(b) (7)(F), (b) (3)		
EDRC CAP Required Per 40CFR 112.20 Appendix E:	(b) (7)(F), (b) (3)		
EDRC Requirement Evaluation:	MET	MET	MET
EDRC Identified Resources Requirement			
CRCT Contracted EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Identified EDRC above CAP:	(b) (7)(F), (b) (3)		
CRCT Contracted and Identified EDRC above CAP:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E (f):	(b) (7)(F), (b) (3)		
EDRC Requirement Evaluation:	MET	MET	MET
EDRC Total Requirement			
CRCT Owned, Contracted, and Identified EDRC:	(b) (7)(F), (b) (3)		
EDRC Required Per 40CFR 112.20 Appendix E:	(b) (7)(F), (b) (3)		
EDRC Requirement Evaluation:	MET	MET	MET

Zone 9 Worksheet
Effective Daily Recovery Capacity Evaluation
Coffeyville Resources Crude Transportation, LLC.
Bartlesville Facility Response Plan
Bartlesville, Oklahoma (a)

PART I. Background Information		
Step A. Calculate Worst Case Discharge in barrels (Appendix D)		(b) (7)(F), (b) (3)
Step B. Oil Group (Table 3 and section 1.2 if 40 CFR 112, Appendix E)		
Step C. Operating Area (choose one)	<input type="checkbox"/> Near shore/Inland, Great Lakes	
Step D. Percentages of Oil (Table 2 of 40 CFR, Appendix E)		
	Percent Lost to Natural Dissipation (D1)	40
	Percent Recovered Floating Oil (D2)	15
	Percent Oil Onshore (D3)	45
Step E1. On-water Oil Recovery (Step (D2) * Step (A)/100) in barrels		(b) (7)(F), (b) (3)
Step E2. Shoreline Recovery (Step (D3) * Step (A)/100) in barrels		
Step F. Emulsification Factor (Table 3 of 40 CFR 112, Appendix E)		
Step G. On-Water Oil Recovery Resource Mobilization Factor (Table 4 of 40 CFR 112)		
Tier 1 (G1)	Tier 2 (G2)	Tier 3 (G3)
(b) (7)(F), (b) (3)		
PART II. On-Water Oil Recovery Capacity (barrels/day)		
Tier 1 (E1 * F * G1) in barrels/day	Tier 2 (E1 * F * G2) in barrels/day	Tier 3 (E1 * F * G3) in barrels/day
(b) (7)(F), (b) (3)		
PART III. Shoreline Cleanup Volume (barrels) (E2 * F)		(b) (7)(F), (b) (3)
PART IV. On-Water Response Capacity by Operating Area (Table 5 of 40 CFR 112, Appendix E)		
Tier 1 (J1)	Tier 2 (J2)	Tier 3 (J3)
(b) (7)(F), (b) (3)		
PART V. On-Water Amount Needed to be Identified, but not Contracted for in Advance (barrels/day)		
Tier 1 (Part II Tier 1 - J1)	Tier 2 (Part II Tier 2 - J2)	Tier 3 (Part II Tier 3 - J3)
(b) (7)(F), (b) (3)		



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol

Issuing Date: January 2007

Revision Date

Revision Number

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Crude Oil

UN-No: UN1267

Supplier Address:
Coffeyville Resources Refining
PO Box 1566
Coffeyville, KS. 67337
MSDS Assistance: 1-620-251-4000
Information: 1-620-252-4265

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Liquid.

Severe eye irritation.

May cause skin irritation and/or dermatitis.

May be harmful if swallowed, inhaled, or absorbed through skin.

Irritating to eyes, respiratory system and skin.

Vapors may be irritating to eyes, nose, throat, and lungs.

Causes central nervous system depression.

May cause drowsiness and dizziness.

Contains a known or suspected carcinogen.

Contains a known or suspected mutagen.

Appearance: Dark brown

Physical State: Viscous liquid

Odor: Petroleum solvent

WPS-CF-002 - Crude Oil

Revision Date January 2007

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity**Eyes**

Irritating to eyes. Avoid contact with eyes.

Skin

May cause irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation

Irritating to respiratory system. Inhalation of vapors in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Hydrogen sulfide, present in trace amounts, is a poisonous gas with the smell of rotten eggs. After a period of exposure, the smell disappears due to olfactory fatigue. Avoid breathing vapors or mists.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Respiratory disorders. Central nervous system. Neurological disorders. Skin disorders. Liver disorders. Kidney disorders. Blood disorders. Cardiovascular.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Petroleum distillates (naphtha)	8002-05-9	60-100
Toluene	108-88-3	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Benzene	71-43-2	1-5
Hydrogen sulfide	7783-06-4	<0.1

4. FIRST AID MEASURES**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

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Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point Method	< 38°C / < 100°F Tag closed cup
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. May re-ignite after fire is extinguished. Move containers from fire area if you can do it without risk.

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 3	Stability 0	Personal Precautions 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

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7. HANDLING AND STORAGE**Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Ensure adequate ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	100 ppm
Petroleum distillates (naphtha)		TWA: 1600 mg/m ³	1100 ppm
Toluene	TWA: 50 ppm Skin	TWA: 100 ppm	500 ppm
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	
Benzene	TWA: 0.5 ppm Skin STEL: 2.5 ppm	TWA: 10 ppm	500 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Wear protective gloves/clothing. Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown	Odor	Petroleum solvent
Physical State	Viscous liquid	pH	No information available

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Revision Date January 2007

Flash Point	< 38°C / < 100°F	Method	Tag closed cup
Autoignition Temperature	260°C / 500°F	Boiling Point/Range	38-704°C / 101-1300°F
Melting Point/Range	No data available		
Flammability Limits in Air		Upper 7	Lower 0.9
Specific Gravity	0.6-1.0	Solubility	No data available
Vapor Pressure	<1380 mg/Hg	Vapor Density	>1
VOC Content	100%		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids. Bases. Halogens.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Oral VALUE (mg/kg)	4195 mg/kg estimated
LD50 Dermal VALUE	2169 mg/kg estimated
LC50 Inhalation (VAPOR) VALUE	19862 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen sulfide			0.701 mg/L (Rat) 4 h
Petroleum distillates (naphtha)	4300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Toluene	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Benzene	690 mg/kg (Rat)	8260 mg/kg (Rabbit)	13050 ppm (Rat) 4 h

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated long term skin application of similar petroleum crudes have been shown to cause skin cancer in laboratory animals. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
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Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
-----------------	--

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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene	A1	Group 1	Known	X

Mutagenicity

Chemical Name	EU - Annex I Mutagens	Japan Mutagens
Benzene	Category 2	

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Respiratory system, Skin, Liver, Central nervous system (CNS), Blood, Eyes.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrogen sulfide				EC50 = 0.022 mg/L 96 h
Petroleum distillates (naphtha)				EC50 = 36 mg/L 24 h
Toluene	EC50 > 433 mg/L 96 h		EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h
Xylenes (o-, m-, p- isomers)			EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h
Benzene	EC50 = 29 mg/L 72 h			EC50 = 10 mg/L 48 h EC50 = 356 mg/L 48 h

Chemical Name	Log Pow
Hydrogen sulfide	0.45
Toluene	2.65
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment.

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D018

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen sulfide - 7783-06-4 Toluene - 108-88-3	waste number U135 waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		waste number U135 waste number U220
Xylenes (o-, m-, p-Isomers) - 1330-20-7		Included in waste stream: F039		waste number U239 (Ignitable waste, Toxic waste)
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K169, K171, K172	= 0.5 mg/L regulatory level	waste number U019 (Ignitable waste, Toxic waste)

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons; by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen sulfide	Toxic; Ignitable
Toluene	Toxic; Ignitable
Xylenes (o-, m-, p-Isomers)	Toxic; Ignitable
Benzene	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description Petroleum crude oil,3,UN1267,PG II

IDG

Proper Shipping Name Petroleum crude oil
Hazard Class 3
UN-No UN1267
Packing Group II
Description PETROLEUM CRUDE OIL,3,UN1267,PG II

MEX

Proper Shipping Name Petroleo bruto
Hazard Class 3
UN-No UN1267
Description UN1267 Petroleo bruto,3,

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14. TRANSPORT INFORMATION**ICAO**

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Description	Petroleum crude oil, 3, UN1267, PG II

IATA

UN-No	UN1267
Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1267, Petroleum crude oil, 3, PG II

IMDG/IMO

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
EmS No.	F-E, S-E
Description	UN1267, Petroleum crude oil, 3, PG II

RID

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II, RID
ADR/RID-Labels	3

ADR

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
UN-No	UN1267
Packing Group	II
Classification Code	F1
ADR/RID-Labels	3

ADN

Proper Shipping Name	Petroleum crude oil
Hazard Class	3
Packing Group	II
Classification Code	F1
Description	UN1267 Petroleum crude oil, 3, II
Hazard Labels	3
Limited Quantity	1 L

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15. REGULATORY INFORMATION**International Inventories**

DSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AIGS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Petroleum distillates (naphtha)	8002-05-9	60-100	0.1
Toluene	108-88-3	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Benzene	71-43-2	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide	100 lb			X
Toluene	1000 lb	X	X	X
Xylenes (o-, m-, p- isomers)	100 lb			X
Benzene	10 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen sulfide	100 lb	100 lb
Toluene	1000 lb	
Xylenes (o-, m-, p- isomers)	100 lb	
Benzene	10 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

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Chemical Name	CAS No	California Prop. 65
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene	X	X	X	X	X
Toluene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	X	X	X	X	X
Hydrogen sulfide	X	X	X		X
Petroleum distillates (naphtha)	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Benzene	A2	STEL: 18 mg/m ³ STEL: 5 ppm TWA: 1 ppm TWA: 3.2 mg/m ³
Toluene		TWA: 50 ppm TWA: 188 mg/m ³
Xylenes (o-, m-, p- isomers)		STEL: 150 ppm STEL: 655 mg/m ³ TWA: 435 mg/m ³ TWA: 100 ppm
Hydrogen sulfide		STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 Flammable liquid
D2A Very toxic materials

Chemical Name	NPRI
Benzene	X
Toluene	X
Xylenes (o-, m-, p- isomers)	X
Hydrogen sulfide	X

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16. OTHER INFORMATION**Revision Date****Revision Note**

This is the original—no revisions have been made.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

NOV-29-2010 15:00

HAZMAT REPOSE

9137826206

P.002



Connie Fitzmaurice
Paralegal Specialist
Direct: 913.982.0453
Fax: 913.981.0002
Email: cfitzmaurice@cvrenergy.com

November 26, 2007

Jeff Donovan
HAZ-MAT Response, Inc.
1203 S. Parker
Olathe, Kansas 66061

Re: Amendment to Emergency Response Agreement

Dear Mr. Donovan:

Please find enclosed an executed original Amendment to Emergency Response Agreement which adds the Humboldt to Broome Station pipeline to the original agreement, as it was inadvertently omitted.

Sincerely,

A handwritten signature in cursive script that reads "Connie Fitzmaurice".

Connie Fitzmaurice

AMENDMENT TO EMERGENCY RESPONSE AGREEMENT

This Amendment to Emergency Response Agreement (this "Amendment") is entered into effective as of Oct 30, 2007 (the "Effective Date"), between Haz-Mat Response, Inc., a Kansas corporation ("Haz-Mat"), and Coffeyville Resources Crude Transportation, LLC, a Delaware limited liability company ("CRCT").

- A. Haz-Mat and CRCT entered into a Emergency Response Agreement, dated as of November 30, 2005 (the "Agreement"), whereby Haz-Mat agreed to provide emergency environmental services to CRCT.
- B. Haz-Mat and CRCT desire to amend the Agreement in the manner described in this Amendment.

The parties agree as follows:

1. Amendment. Paragraph 1 of the Agreement is hereby amended by adding "; and" to the end of subparagraph E, and by adding a new subparagraph F immediately thereafter as follows:

"F. Crude oil pipeline running from Humboldt, Kansas to Broome Station, Kansas."

2. Ratify Agreement. Except as expressly amended hereby, all of the terms, conditions and provisions of the Agreement will remain unamended and in full force and effect in accordance with its terms, and the Agreement, as amended hereby, is hereby ratified and confirmed. The amendments provided herein will be limited precisely as drafted and will not constitute an amendment of any other term, condition or provision of the Agreement.

3. References. References in the Agreement to "Agreement", "hereof", "herein" and words of similar impact will be deemed to be a reference to the Agreement as amended by this Amendment.

4. Multiple Counterparts. This Amendment may be executed in multiple counterparts, each of which will be deemed to be an original and all of which will constitute one agreement that is binding upon all of the parties.

[signature page follows]

The parties have caused this Amendment to be executed as of the Effective Date.

Haz-Mat Response, Inc.

By: *John W. Stockdale*
Name: John W. STOCKDALE
Title: PRESIDENT

Coffeyville Resources Crude Transportation, LLC

By: *COS*
Name: Christopher G. Swanberg
Title: Vice President, EHS

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

THIS AGREEMENT is made as of November 30, 2005, by and between HAZ-MAT RESPONSE, INC.SM, 1203 C South Parker, Olathe, Kansas 66061, hereinafter referred to as "HRI" and COFFEYVILLE RESOURCES CRUDE TRANSPORTATION, LLC, hereinafter referred to as "Customer".

WHEREAS, HRI is in the business of providing emergency environmental services ("Services"); and

WHEREAS, Customer desires to retain HRI to provide such Services,

NOW, THEREFORE, HRI and Customer agree as follows:

1. HRI agrees to provide Services (subject to the terms and conditions in this Agreement and pursuant to a work order ("Work Order") for specific services) to Customer at Customer's sites as follows:

A. Crude oil pipeline running from Phillipsburg, Kansas to Plainville, Kansas; and

B. Crude oil pipeline running from Valley Center, Kansas to Coffeyville, Kansas;
and

C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and

D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and

E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

All of the above pipelines and gathering lines are more specifically depicted on the attached Exhibit A. In the event of a conflict between a Work Order and this Agreement, this Agreement shall control.

2. This Agreement shall take effect on the date hereof and shall continue for a period of one (1) year, unless earlier terminated by HRI or Customer as herein provided. This Agreement shall automatically renew for additional consecutive one-year periods, unless either party shall give written notice of non-renewal to the other not later than thirty (30) days prior to the expiration of any one-year period. HRI or Customer may by written notice terminate this Agreement prior to the expiration of the initial term or any renewal term upon the other's default.

3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

6. Customer agrees to provide access to HRI Personnel to perform Services. In the event Customer does not own the property where Services are to be performed, Customer, with HRI's assistance, agrees to obtain such access as required to perform Services. HRI Personnel shall not be required to perform any Services on property where access has not been properly obtained.

7. As compensation for the services provided by HRI, the Customer shall pay HRI's current charges, which rates are attached hereto. These may change from time to time during the initial term of this Agreement or any renewal term provided that Customer has been notified of the changes at least 30 days in advance of the effective date of such change and customer does not during such 30-day period terminate this Agreement. HRI shall invoice customer for all amounts due hereunder, said invoice to be due under standard terms, net 30 days. While performing services pursuant to a Work Order, HRI shall submit invoices and any supporting documentation reasonably requested by Customer to Customer on a timely basis. All uncontested invoices past due can and will be subject to an automatic 1.5% finance charge on the unpaid balance per month.

8. Customer shall designate individuals who shall be authorized to request Services and coordinate performance with HRI. HRI will provide Customer in writing with a list of coordinator and communication links. HRI and Customer agree that each shall promptly provide the other with written updates from time to time as names and communication numbers are changed.

9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
\$5,000,000.00 each occurrence.
\$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
Statutory Limits.
- E. Professional Liability:
\$2,000,000.00 per loss.
\$2,000,000 annual aggregate.
- F. Pollution Liability:
\$1,000,000.00 per loss.
\$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

or at such other address as either shall have designated by notice to the other party.

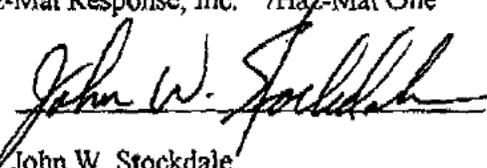
22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, LLC Haz-Mat Response, Inc.SM/Haz-Mat OneSM

By: _____

By: 

Typed Name: Stanley A. Riemann

John W. Stockdale

Title: Chief Operating Officer

President

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Address: 1203 S. Parker

Olathe, Kansas 66061

Attention: Sam McCormick

Phone #: 913-782-5151 Ext. 243

Phone #: 913-982-0457

Fax #: 913-782-6206

Fax #: 913-905-0290

HAZ-MAT RESPONSE, INC.SM
EMERGENCY RESPONSE AGREEMENT

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and
 - C. Crude oil pipeline running from Shidler, Oklahoma to Hooser Station, Kansas;
and
 - D. Crude oil pipeline running from Bartlesville, Oklahoma to Broome Station, Kansas; and
 - E. Crude oil gathering lines in Cowley and Chautauqua Counties, Kansas and Osage and Washington Counties, Oklahoma.

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3. HRI with its own employees, agents and subcontractors ("HRI Personnel"), shall provide emergency or non-emergency response, clean up, or remediation services 24 hours a day, 365 days a year, and shall respond with trained personnel and appropriate equipment adequate to

initiate a reasonable response effort. This may involve, without limitation, recovery, removal, disposal, or containment of a release of Hazardous Material, as requested. "Hazardous Material" means any material or substance that is prohibited or regulated by any statute, law, rule, regulation, or ordinance, or that is designated by any governmental authority to be radioactive, toxic, hazardous, or that is otherwise a danger to health, reproduction, or the environment, including, without limitation, petroleum, petroleum products, PCBs, dioxins, asbestos, asbestos-containing material, and urea formaldehyde.

4. HRI Personnel will have in effect, during this Agreement, all necessary permits, licenses, and certifications required of HRI by any Environmental Laws or any local, state or federal governmental authority, to perform the Services. If the Customer is required to obtain permits, licenses, certifications, or approvals required for performance of the Services, Customer, with HRI's assistance, agrees to obtain those permits, licenses, certifications, or approvals. HRI Personnel shall not be required to perform any Services if all permits, licenses, certifications, or approvals required of Customer have not been properly obtained.

5. HRI Personnel will comply with Environmental Laws in performing the Services. "Environmental Laws" mean federal, state, or local laws, statutes, regulations, rules, or ordinances, enacted, promulgated, or issued by any governmental authority relating to the use, handling, transportation, production, disposal, discharge, release, emission, sale, or storage of, or the exposure of any person to, Hazardous Materials including, without limitation, the Federal Solid Waste Disposal Act, The Toxic Substance Control Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, and the Occupational Safety and Health Act, all as amended from time to time.

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9. HRI's response managers will be in route to the site within one hour after notification by Customer or Customer's representative, if reasonably practical. The notification to HRI by telephone will be confirmed by Fax to 800-982-6206 as soon as possible. Failure by HRI Personnel to meet the stated time requirements herein shall be excused when caused by circumstances beyond their control, including but not limited to inclement weather, acts of God, etc., provided that HRI Personnel in such circumstances use their best efforts to respond as quickly as possible.

10. HRI Personnel shall comply with all reasonable requests and directions by Customer or Customer's representative. Customer and HRI shall cooperate to determine appropriate responses to a given incident, including use of additional resources and/or equipment on site. Customer will have final authority with respect to all decisions affecting the mitigation of a spill or release incident. HRI reserves the right to terminate its response at any time in the event it believes the situation to be too dangerous, or in the event Customer requires Services which, in the good faith belief of HRI, would violate an Environmental Law.

12. HRI shall remain in contact with the HRI Personnel onsite until the Service performed pursuant to a Work Order is terminated by the Customer or Customer's representative, or a schedule for a phased response acceptable to Customer is established. Customer shall have the right to terminate any Service at any time. Customer shall be responsible for all charges, expenses and personnel time incurred by HRI Personnel in the event any Service is aborted by the Customer or the Customer's representative for reasons not the fault of HRI Personnel.

13. Customer shall designate within its facility a place where all Material Safety Data Sheets (MSDS) shall be kept, and a person or persons, responsible for providing access to these files for HRI Personnel at all times Services are being performed. Customer shall provide a facility drawing and/or site contingency plan at the same location, showing the location and quantities of stored Hazardous Material.

14. An annual inspection of Customer's facility and grounds, by a HRI representative, will be conducted at Customer's request to correspond with Customer's requirements for state and federal reporting. The Customer reserves the right to refuse these inspections and HRI agrees to call for prior approval. If an inspection is requested the fee will be pre-negotiated and no report shall be made available to any regulatory agency unless required by subpoena and then only after notification to Customer.

15. HRI shall maintain for the life of this Agreement, at its own expense, the following insurance:

A. General Liability:

\$2,000,000.00 general annual aggregate.

\$1,000,000.00 each occurrence.

B. Automobile Liability:

\$1,000,000.00 combined single limit.

- C. Excess Liability/Umbrella Form:
 - \$5,000,000.00 each occurrence.
 - \$5,000,000.00 annual aggregate.
- D. Workers Compensation and Employers' Liability:
 - Statutory Limits.
- E. Professional Liability:
 - \$2,000,000.00 per loss.
 - \$2,000,000 annual aggregate.
- F. Pollution Liability:
 - \$1,000,000.00 per loss.
 - \$2,000,000.00 annual aggregate.

(Additional limits of coverage are available at an additional fee)

HRI shall name Customer as an additional insured on its policies. HRI will provide to Customer a certificate of insurance which evidences the above insurance coverages such certificate shall also provide that Customer shall be given ten (10) days prior written notice of any cancellation or modifications thereof.

16. HRI shall be fully independent in performing the Services and shall not act as an agent or an employee of Customer. HRI shall be solely responsible for its agents, employees and its subcontractor's compensation, benefits, contributions, insurance and taxes, if any.

17. This Agreement shall be interpreted, and performance hereof shall be construed, in accordance with and governed by the laws of Kansas.

18. This Agreement and the attachments hereto constitute the entire agreement between the parties, and no statements, promises, or inducements made by any party or agent shall be valid or binding. This Agreement may not be enlarged, modified, or altered except in writing and signed by the parties.

19. HRI agrees to defend, indemnify, and hold harmless Customer from and against any and all claims, liabilities, demands, penalties, causes of action, and costs arising out of the negligence of HRI and HRI Personnel.

20. HRI agrees that all information received and all documents and communications generated during the course of performing Services under this Agreement shall be kept in strict confidence. HRI shall not release any information, document, or report obtained or prepared in connection with performance of Services to anyone other than Customer, except as authorized in

writing by Customer, or in response to a subpoena or court order, and then only after reasonable prior written notice is given to Customer. HRI will promptly notify Customer of any request, demand for any documents relating to the performance of Services under this Agreement. Nothing contained in this Agreement shall prevent either the Customer or HRI from disclosing or using information known to the receiving party before disclosure by the other party or was part of the public domain or becomes part of the public domain through no act or omission of the receiving party.

21. All notices, consents and approvals hereunder shall be in writing and shall be deemed to have been given if delivered personally, sent by facsimile transmission with confirmation of receipt, or if mailed by certified mail, return receipt requested, addressed as follows:

If to Customer, at the address following Customer's signature to this Agreement;

If to HRI, at the address at the beginning of this Agreement;

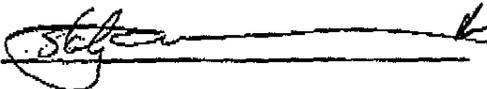
or at such other address as either shall have designated by notice to the other party.

22. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute together but one and the same instrument.

23. Each of the signatories to this Agreement certify that he or she is fully authorized to bind his or her representative entity to the terms of this Agreement.

WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Coffeyville Resources Crude Transportation, Haz-Mat Response, Inc.SM/Haz-Mat One[®]
LLC

By: 

Typed Name: Stanley A. Riemann

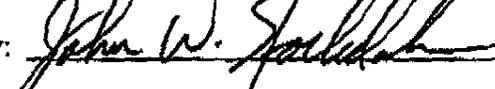
Title: Chief Operating Officer

Address: 10 East Cambridge Circle Drive,
Suite 250, Kansas City, Kansas 66103

Attention: Sam McCormick

Phone #: 913-982-0457

Fax #: 913-905-0290

By: 

John W. Stockdale

President

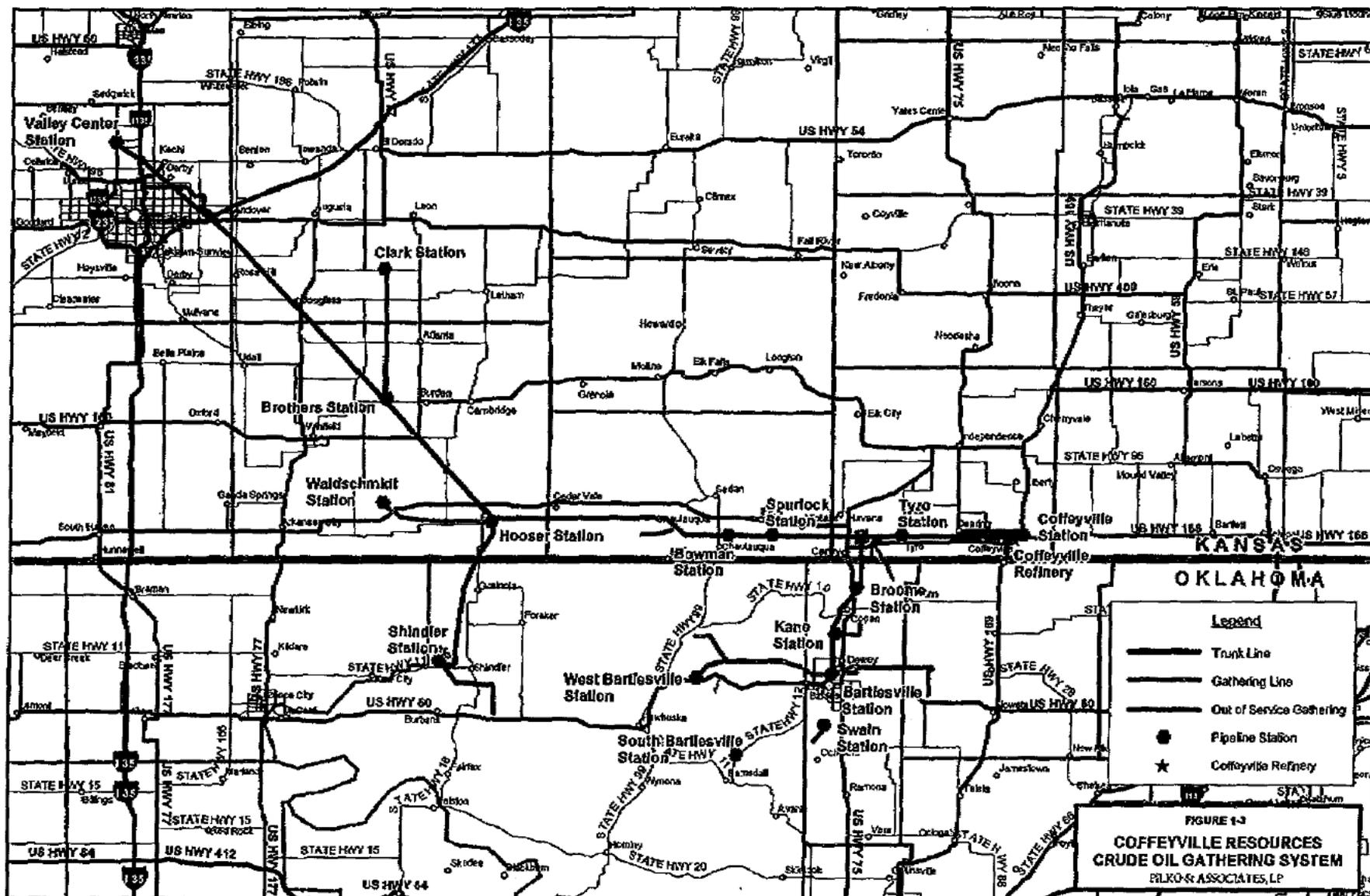
Address: 1203 S. Parker

Olathe, Kansas 66061

Phone #: 913-782-5151 Ext. 243

Fax #: 913-782-6206

ATTACHMENT A



Legend

- Trunk Line
- Gathering Line
- Out of Service Gathering
- Pipeline Station
- Coffeyville Refinery

FIGURE 1-1
COFFEYVILLE RESOURCES
CRUDE OIL GATHERING SYSTEM
 RLKO & ASSOCIATES, LP

Section 10 - Telephone Numbers for Spill Response Services



Telephone Numbers for Spill Response Services

<u>Agency</u>	<u>Phone Number</u>
Copan Marine (Copan)	(918) 532-4723
Trinity Environmental Labs (Mound Valley)	(620) 328-3222
Haz-Mat Response Inc. (Olathe)	(800) 229-5252
Eis Communication Service	(918) 664-0980
Burrows Construction (Wann)	(918) 531-2268
Marine Spill Response Corp.	(703) 326-5617
National Strike Force Coord.	(713) 671-5133
Parks & Recreation (Copan Lake OK)	(918) 532-4334
Parks & Recreation (Winfield Ks Area)	(620) 221-5500
Public Works Dept. (Copan OK)	(918) 532-4732
Quarry Land Fill (Tulsa)	(918) 437-7773
Road Dept. (State Of OK)	(918) 838-9933
Road Dept. (Washington Co. OK)	(918) 534-1170
Road Dept. (Sumner Co. KS)	(620) 326-2253
Road Dept. (State Of Ks Winfield Area)	(620) 221-5600
Road Dept. (Montgomery Co. KS)	(620) 330-1170
Sullivan Trucking (Dumpsters)	(580) 762-6373
U.S. Fish & Wildlife Service (Tulsa Office)	(918) 581-7458
U.S. Fish & Wildlife Service (Wichita Office)	(316) 788-4474
Water Dist. # 5 (Washington Co. OK)	(918) 535-2302
Wildlife Dept. (Washington Co. OK)	(918) 299-2334
Wildlife Dept. (Montgomery Co. KS)	(620) 431-0380
Wildlife Dept. (Winfield Ks Area)	(316) 683-8069
Cary's Portable Toilets (Bartlesville)	(918) 336-4877

Section 11 – Documentation of Response Events



Documentation of Response Events

Documentation of events during an oil spill response will be required. Several of the forms used in this FRP were developed by NOAA. Several of the NOAA documentation forms have been modified to fit the needs of Coffeyville Resources Crude Transportation LLC.

The following are the documentation forms to be used as a part of the CRCT FRP for Onshore Oil Pipelines:

National Response Center Spill Reporting Form

Date, time & duration of release _____

Chemical or product released _____

Estimated quantity of release _____

Released to (land, air, water) _____

Location of release _____

Cause of release _____

% of recovery _____

Anticipated acute or chronic health risks _____

Necessary precaution taken as result of release (evacuation, tank transfers, posting warning signs, build containment dyke, etc) _____

Reported to National Response Center _____ Report No. _____

Person taking report _____

Reported to Kansas Dept. of Health & Environment _____

Person taking report _____

Reported to State Emergency Response Committee _____

Person taking report _____

Reported to Local Emergency Planning Committee _____

Person taking report _____

Reported to other agency _____

Names and address of persons to be contacted for further information: _____

Date and signature of person filing report _____

Other information _____

EMERGENCY REPORT FORM

Facility:

Name/telephone number of individual reporting release:

Release date/time:

Substance released:

Quantity released:

Location/source of release:

Cause of release:

Existing/potential hazards (i.e., fire, explosion, etc.):

Personal injuries?

Offsite impacts/reactions

Corrective action and timetable to control, contain, clean up release:

Measures to prevent recurrence:

Other comments: