Toward Sustainability of Passive Treatment in Legacy Mining Watersheds

Operation Performance and System Maintenance

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Sustainability of Passive Treatment Wetlands

- Administrative Perspective
 - Sources of Funding
 - Contracting Tools
 - Legal Tools





How were these projects funded??

Mayer Ranch (2004)

Remedial Action

- "Oklahoma Plan"
- EPA Wetland Program104(b)(3)

■ 0&M

 Petroleum Storage Tank Consolidation Act (17 O.S.327.1)

SE Commerce (2014)

- Remedial Action
 - Oklahoma Secretary of Energy and Environment (OSEE)
 - EPA Match

■ 0&M

 Petroleum Storage Tank Consolidation Act (17 O.S.327.1)

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Implementation - Contracts

Funding OU CREW

- Interagency Agreement/Contract
 - RA and evaluation
 - O&M
- Proposals, budgets, timelines, deliverables

Engaging Landowners

- Participation drives design
- Compensation
- MOA/MOU



But Wait....



- Why doesn't DEQ just buy the land and eliminate having to engage landowners?
- Answer: DEQ (as an Agency) does not have authority to purchase land or own land.

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Implementation - RA

- Final Design and Construction
 - Project Management work
- Landowner Compensation (MOA/U)
 - Survey/Fence
 - Per acre rate
 - 30 years of taxes
 - % of value of land
 - Additional metrics



Long Term Sustainability

- Conservation Easement 60 O.S § 49.2(1)
 - Restrictive covenants
 - Outlined in MOA/MOU
 - Filed in County Courthouse
- Notice of Remediation 27A O.S § 2-7-123(B)
- Uniform Environmental Covenants 60 o.s § 49.14

CONSERVATION EASEMENT

OVER HOME SUPER OVER 1981 COUNTY

THIS CONSERVATION EASEMENT (the "Fasement") is executed pursuant to the Uniform Conservation Easement Act ("Act"), Title 60 Oklahoma Stat. ("O.S.") §§ 40.1 through 49.8, made by "Charatoris", in favor of the Oklahoma Department of Environmental Quality ("Grantee"). The Easement is created for the purposes set out below and

WHEREAS, Grantors are the sole owners of certain real property in Ottawa County, Oklahoma, more particularly described in Exhibit A attached hereto and incorporated herein by reference ("Property").

WHEREAS, within the boundaries of the Property is a passive treatment remediation system, more particularly described in Exhibit B attached hereto and incorporated herein by reference ("Affected

WHEREAS, this Essement is limited to the Affected Property and includes Grantee's rights of ingress and egress, as well as contractors and consultants hired by Grantee, through the Property and across and onto the Affected Property to ensure the ongoing operation, maintenance and mortalism of the Barrier Transferrance Demonstration of the Barrier Transferrance Demonstration of the State Property of Contraction of the Contractio

WHEREAS, the Passive Treatment Remediation System located on the Affected Property was constructed for the purposes of improving and enhancing water quality that has been negatively impacted by contaminated mine water discharge caused by historical mining operations within the Tar Creek Superfund Site.

ensure the effectiveness and protectiveness of the Passive Treatment Remediation System Grantee or Grantee's contractors or consultants:

- General operational maintenance of the Passive Treatment Remediation System,
 Maintenance by removal and/or replacement of operatic material from the Pass
- Treatment Remediation System pond(s),
- Maintenance and repair of perimeter fence around the Passive Treatment Remediation
 System

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Acknowledgements

- Continued Collaboration and Future Projects
 - OU CREW
 - Quapaw Nation
 - EPA
 - DEQ

