

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

## SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☐ Spill ☐ Complaint  
☐ Inspection ☐ NOAV

Tracking No:

## CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): No Further Action Request

## GENERAL INFORMATION

OGCC Operator Number: <u>52530</u>		Contact Name and Telephone	
Name of Operator: <u>Maggie Operating Inc</u>		Name: <u>Ryan Warner</u>	
Address: <u>2707 South County Road 11</u>		No: <u>970.669.6308</u>	
City: <u>Loveland</u> State: <u>CO</u> Zip: <u>80537</u>		Fax: <u>970.669.6396</u>	
API/Facility No: <u>05-121-06251</u>		County: <u>Washington</u>	
Facility Name: <u>Flowline</u>		Facility Number: _____	
Well Name: <u>Little Beaver Unit</u>		Well Number: <u>30</u>	
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SWSE 32 1S 56W</u>		Latitude: <u>39.9184</u>	Longitude: <u>-103.674</u>

## TECHNICAL CONDITIONS

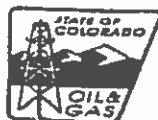
Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): <u>Produced Water</u>	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, attach evaluation. Surface water adjacent to site	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): <u>Dry land farming</u>	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: <u>Weld silt loam</u>	
Potential receptors (water wells within 1/4 mi, surface waters, etc.): <u>n/a</u>	
Description of Impact (if previously provided, refer to that form or document):	
Impacted Media (check):	Extent of Impact:
<input checked="" type="checkbox"/> Soils	<u>50' x 30' (Surface Staining)</u>
<input type="checkbox"/> Vegetation	_____
<input type="checkbox"/> Groundwater	_____
<input type="checkbox"/> Surface water	_____
How Determined: <u>Observation, Sampling and laboratory analysis</u>	

## REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
As per remediation agreement #8281, Maggie was required to conduct additional sampling and removal of petroleum hydrocarbon impacted soil in the vicinity of the flowline release and in the surface soils surrounding the flowline. Details and timing of the initial actions taken can be found in the previous Form 27 (filed on July 18, 2014) and in supporting documentation.
Describe how source is to be removed:
As of July 18 2014, two scraping events have been conducted to remove surface staining, and two excavation events have been conducted to remove impacted materials from around the flowline release to approximately 6' bgs. On July 22, 2014, a scraping event was conducted to remove the remaining impacted soil areas focused around the flowline release.
Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
Approximately 15 cubic yards of impacted soils from the July 18 and July 22, 2014 excavation events were hauled on August 1, 2014 to the Waste Management Buffalo Ridge Facility. The manifest is included as an attachment.

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REMEDIATION WORKPLAN (CONT.)

Tracking Number: \_\_\_\_\_  
Name of Operator: Maggie Operating Inc  
OGCC Operator No: 52530  
Received Date: \_\_\_\_\_  
Well Name & No: Little Beaver #30  
Facility Name & No.: \_\_\_\_\_

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):  
Groundwater was not encountered during excavation and sampling activities to a depth of 6 feet below ground surface.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.  
Current use is planted winter wheat. Surface tenants described planting new crop this season. Tenants will be consulted regarding proper soil composition backfill material. Upon receipt of approval from COGCC to backfill and reclaim, a Reclamation plan will be filed with the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

After the July 18, 2014 excavation and confirmation sampling event, soils not compliant with COGCC Table 910-1 remained. The non-compliant soils were removed on July 22, 2014 and another round of confirmation samples were collected under the guidance of the COGCC. Analytical results indicate soil samples were compliant with Table 910-1.

Maggie requests permission to backfill and grade the area and requests No Further Action with regards to petroleum hydrocarbon impacted soils at the release area. Impacted soils were loaded into trucks and hauled to the Waste Management Buffalo Ridge Facility on August 1, 2014.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):  
Impacted soil was disposed of at the Waste Management Buffalo Ridge Facility. See attached manifests

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	<u>2/18/2014</u>	Date Site Investigation Completed:	<u>7/22/2014</u>	Remediation Plan Submitted:	<u>3/20/2014</u>
Remediation Start Date:	<u>4/22/2014</u>	Anticipated Completion Date:	<u>7/22/2014</u>	Actual Completion Date:	<u>7/22/2014</u>

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Ryan Warner

Signed: [Signature] Title: Vice President Date: 8/4/2014

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_



August 5, 2014

Mr. John Axelson  
Northeast Region Environmental Protection Specialist  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203

**RE: Magpie Operating Inc.  
Little Beaver Unit #30  
API 05-121-06251  
Remediation # 8281  
SWSE Sec. 32 T1N R56W  
Washington County, Colorado**

Dear Mr. Axelson:

LT Environmental, Inc. (LTE), under the direction of Magpie Operating, Inc. (Magpie), conducted environmental remediation and sampling activities following the identification of petroleum hydrocarbon impacted soil at a flowline release at the Little Beaver Well #30 (Site). The Site is located 0.66 miles east-northeast of the intersection of County Road (CR) B and CR 24 in Washington County, Colorado.

Between the dates of April 23 and July 22, 2014, Magpie had conducted four surficial scraping and two excavation events to remove impacted soils associated with the flowline release at the site. LTE has submitted Form 27 and assessment reports to the COGCC detailing the results of these events with the last submittal being July 25, 2014.

On August 1, 2014, Magpie loaded 15 cubic yards of impacted soil from the excavation events into trucks and disposed of the soil at the Buffalo Ridge Waste Management Facility located in Keenesburg, Colorado. Waste Manifests are included as Attachment A.



Please call LTE at 303-433-9788 if you have any questions or comments regarding this correspondence.

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'E. Lang', is written over a light gray rectangular background.

Eric Lang, P.G.  
Project Geologist

Cc: Ryan Warner, Magpie

Attachments: 1:

Attachment 1 – Waste Manifests

**ATTACHMENT 1**  
**WASTE MANIFEST**



Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier KURT JEFFERSON  
 Ticket Date 08/01/2014 Vehicle# Kurt Vin WN459096 Volume  
 Payment Type Credit Account Container  
 Manual Ticket# Driver  
 Hauling Ticket# Check#  
 Route Billing # 0000299  
 State Waste Code Gen EPA ID  
 Manifest 1264199  
 Destination Grid  
 PO LBDSU#30&31  
 Profile 113623CD (CRUDE OIL IN SOIL)  
 Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

Time	Scale	Operator	Inbound	Gross	69400 lb
In 08/01/2014 09:52:35	Scale 1	ACONNER		Tare	33660 lb
Out 08/01/2014 10:11:36	Scale 1	ACONNER		Net	35740 lb
				Tons	17.87

Comments

WASTE MANAGEMENT

Hours: M-F 7AM-4PM, Sat: 8AM-1PM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons	100	17.87	Tons				LBDSU3031
2 FUEL-Fuel Surcharg	100		%				LBDSU3031
3 EVF-L-Standard Env	100	1	Load				LBDSU3031
4 RCR-P-Regulatory C	100		%				LBDSU3031

*Kurt Jefferson*

Total Tax  
Total Ticket

403WM-N

F A C I L I T Y	Initials of Person noting discrepancy _____ Date _____		12. Ticket # 909185	
	13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds			
	Grid Location (if applicable): _____			
	14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.			
Printed/Typed Full Name A. Conner		Signature (Full Name) <i>[Signature]</i>		Month Day Year 08 01 14

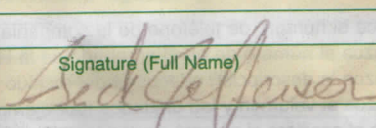
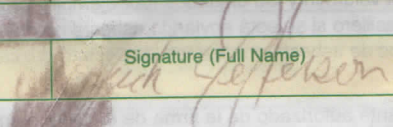
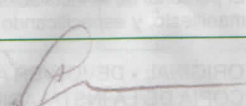
TRANSPORTER COPY



GENERATOR

TRANSPORTER

FACILITY

3. Transporter: Company Name <b>KURT JEFFERSON 21382 CR 30 AKRON CO 80720</b>		3a. Transporter's Phone <b>(970) 520-0021</b>	
4. Transporter: Company Name		4a. Transporter's Phone	
5. Designated Management Facility Name and Site Address		5a. Facility's Phone	
6. Waste Code/Profile #	Waste Description	Quantity	Units
113623CO	Cont. Soil	15	YDS
		17.87	Tons
<b>NON-FRIABLE ASBESTOS WASTE ONLY</b> (Friable may not be shipped on this manifest)			
Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246		<b>24 HOUR EMERGENCY PHONE NUMBER</b> ( _ _ _ ) _ _ - _ _ - _	
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.			
8a. Contractor/Generator Printed/Typed Full Name <b>Rick Jefferson</b>		Signature (Full Name) 	
9. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Full Name <b>Rick Jefferson</b>		Signature (Full Name) 	
10. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Full Name		Signature (Full Name)	
11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____		12. Ticket # <b>909185</b>	
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds			
Grid Location (if applicable): _____			
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.			
Printed/Typed Full Name <b>A. Conner</b>		Signature (Full Name) 	

TRANSPORTER COPY