District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD

Santa Fe, NW 87303 District Offic	e
Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Appli Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alt	cation
Modification to an existing permit Solosure plan only submitted for an existing permitted or non-permitted below-grade tank, or proposed alternative method Amended Report - BGT Closs	lternative method d pit, closed-loop system, ure
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grad Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of su environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental auth	rface water, ground water or the
Operator: Koch Exploration Company, LLC OGRID #: 12807	RCVD DEC 12'08
Address: PO Box 489, Aztec, NM 87410	OIL CONS. DIV.
Facility or well name: Dryden 2 (BGT Proposed Closure)	
API Number: <u>30-045-24232</u> OCD Permit Number:	
U/L or Qtr/Qtr L Section 22 Township 28N Range 08W County:	
Center of Proposed Design: Latitude 36° 38' 40" N Longitude 107° 40' 26' W	
Surface Owner. Federal State Private Tribal Trust or Indian Allotment	
2	
Pit: Subsection F or G of 19.15.17.11 NMAC	RCVD AUG 22'12
Temporary: Drilling Workover	OIL CONS. DIV.
Permanent Emergency Cavitation P&A	DIST. 3
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
☐ String-Reinforced	
Liner Seams. Welded Factory Other Volume: bbl Dimensions	Lx Wx D
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior intent)	
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other	
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other	
Liner Seams: Welded Factory Other	
4. Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 60 bbl Type of fluid: Produced Water	
Tank Construction material Steel	
Secondary containment with leak detection	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Tank is now Above Ground	
Liner type: Thickness 20 mil HDPE PVC Other	<u>,</u> .

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,
Netting: Subsection E of 19 15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site: Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site: Aerial photo: Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - (WATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources: USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No

Teinporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method. Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.D. drilling fluids and drill cuttings. Use attachment if n	NMAC) nore than two
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number.	_
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) \(\bigcap \) No		
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17 13 NMAC	C
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may required an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate dist al Bureau office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Database search; USG	ata obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 fect below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Database search;	ata obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - (WATERS database search; USGS; Database search)	ata obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other s lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ignificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or churd - Visual inspection (certification) of the proposed site; Aerial photo; Satell		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that k watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh was adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approximately	•	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Minit	ng and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolo Society; Topographic map	gy & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsections.	equirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC, pad) - based upon the appropriate requirements of 19.15.17.13 NMAC equirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannon H of 19.15.17.13 NMAC on L of 19.15.17.13 NMAC	15.17.11 NMAC

19.	
Operator Application Certification: 1 hereby certify that the information submitted with this application is true, accur	ate and complete to the best of my knowledge and belief
•	
Name (Print): John Chark	Title: District Superintendent
Signature.	Date: 12-10-08
e-mail address: clark23 kochind com	Telephone: _(505) 334-9111
20. OCD Approval: Permit Application (including eldeure plan)	lan (anh.) III OCD (Anditions (see attachment)
OCD Approval: Permit Application (including clasure plan) OCD Representative Signature:	(See all a 1/06/202
OCD Representative Signature:	Approval Date: 10/05/2011
Title: Compliance Officer	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior. The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the closure.	to implementing any closure activities and submitting the closure report. The completion of the closure activities. Please do not complete this
	☐ Closure Completion Date: 07/26/2012
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Altern If different from approved plan, please explain	ative Closure Method Waste Removal (Closed-loop systems only)
Closure Penert Pegerding Wasta Pemeral Closure For Closed Ican System	That Heiling About County Start Tente on Haut off Bin Only
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, dri	ling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized.	ing finites and arm entings were disposed to se underlinent if more man
Disposal Facility Name	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on o Yes (If yes, please demonstrate compliance to the items below) No	···· · · · · · · · · · · · · · · · · ·
· · · · · ·	
Required for impacted areas which will not be used for future service and operat Site Reclamation (Photo Documentation)	ions:
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24.	
Closure Report Attachment Checklist: Instructions: Each of the following in	ems must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached. X Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
Plot Plan (for on-site closures and temporary pits)	
☐ Confirmation Sampling Analytical Results (if applicable)	
Waste Material Sampling Analytical Results (required for on-site closure)	
☐ Disposal Facility Name and Permit Number ☑ Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
On-site Closure Location. Latitude Longi	tude NAD:
25,	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requires	
Name (Print): Donald Johnson	Title. Operations Manager
Signature:	Date: 8 00 12
e-mail address: johnso4d@kochind.com	Telephone: 505-334-9111

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	-		Rel	ease Notific	catio	n and Co	rrective A	ction	1			
	_					OPERATOR Initial Report Fi					Final Report	
		Koch Explora		npany, LLC		Contact Do						-
		9, Aztec, NN	1 87410			Telephone No. 505-334-9111						
Facility Nar	ne Drydei	n 2				Facility Type Gas Well						
Surface Ow	ner BLM	[Mineral C	Owner	BLM			API No	. 30-045-2	24214	
LOCATION O					N OF REI	LEASE						
Unit Letter	Section						West Line	County				
L	22	28N	8W	1800	1	South	1100		est	San Juan		
		Latitud	e_N36° 3	38' 40"		Longitud	e_W107° 40' 26	<u>. </u>				
				NAT	UR	E OF REL	EASE_					
Type of Rele						 _	Release NA			Recovered 1		
Source of Re							Iour of Occurrence	e N/A	Date and	Hour of Dis	covery	N/A
Was Immedi	ate Notice (Yes [] No ⊠ Not R	equire		Whom? N/A					İ
By Whom?	N/A					Date and I	lour N/A					
Was a Watercourse Reached? ☐ Yes ☒ No				If YES, Vo	olume Impacting t	the Wat	ercourse. N	Ι/Λ				
If a Waterson	ursa was Im	pacted, Descr					 /					
ii a waterco	uise was iii	ipacieu, Desci	ibe rully.									
Describe Co.	ss of Probl	em and Reme	dial Astis	n Tokon *								
				ng this C-141 as p	art of	a below grade i	ank Closure Repo	ort Un	on removal	of the below	v orade	tank a five
				neters (Benzene, I								
				tails of the below						. ,		
Describe Are	a Affected	and Cleanup	Action Ta	ken.*				·				
				was no release at t	his loc	cation.						1
1												
I hereby cert	ify that the	information g	iven abov	e is true and comp	lete to	the best of my	knowledge and u	ındersta	nd that purs	suant to NM	OCD r	ules and
regulations a	ll operators	are required t	o report a	nd/or file certain i	release	notifications a	nd perform correc	ctive ac	tions for rela	eases which	may e	ndanger
				ce of a C-141 rep								
				y investigate and reptance of a C-141								
		ws and/or reg		plance of a C-141	тероп	does not renev	e the operator of	гозрона	iointy for c	omphanee v	vitii aii	y other
	\wedge	10 14					OIL CON	SERV	ATION	DIVISIO	N	
Signature:	A)-	ld #f	7									
Printed Name: Donald Johnson Approved by Environmental Specialist:												
Title: Operations Manager Approval Date: Expiration Date:					Date:							
										1		
E-mail Addr	al	4d@kochind.	com			Conditions o	f Approval:			Attached		
Date:	8/3	20/12	Phone	: 505-334-9111	-334-9111							

^{*} Attach Additional Sheets If Necessary

Koch Exploration Company, LLC San Juan County, NM Below-Grade Tank Closure Report August 15, 2012

Well Name: Dryden 2 Well API Number: 30-045-24232 S/T/R: S22, T38N, R8W Unit L

In accordance with Rule 19.15.17.13 NMAC, the following report describes the procedures followed to close a below-grade tank (BGT) on the above referenced Koch Exploration Company, LLC (KEC) location in San Juan County, New Mexico. This closure followed KEC's standard procedure for closing BGTs. This report is being submitted to the OCD within 60 days of the pit closure and includes a form C-144 and attachments required by form C-144.

General Plan Requirements

- 1 KEC shall close an existing below-grade tank that does not meet the design requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16,2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC. [19.15.17.13(A)(4)] Closure date is July 26, 2012
- All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary fractionation tank, etc.) The well will be temporarily shut-in until the rerouting is completed.

Complete as stated.

All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed of by injection at either Basin Disposal Inc. (Disposal #1 Well, API 30-045-26862, Permit NM-OO 1-0005) or Key Four Comers Inc. (Sunco Disposal #1, API 30-045-28653, Permit NM-O 1-0009).

Produced water in the BGT was removed and disposed of at Basin Disposal, Inc..

Closure Method for Below-grade Tanks [19.15.17.13(E) NMAC]

- 1 KEC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility.

 All liquids and sludge were removed from the tank prior to closure activities.
- 2 KEC shall remove the below-grade tank and either recycle, reuse, reclaim, or dispose of it in a division-approved facility (i.e. San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426).

KEC is reusing the below-grade as an above ground storage tank with 20 mil plastic below the tank.

If there is any on-site equipment associated with a below-grade tank, then KEC shall remove the equipment, unless the equipment is required for some other purpose.

KEC has removed on-site equipment associated with the below-grade tank that was no longer needed for continued production.

KEC shall test the soils beneath the below-grade tank to determine whether a release has occurred. KEC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021 B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. KEC shall notify the division of its results on form C-141. The division may require additional delineation upon review of the results.

A five point composite sample was taken of the pit and all samples tested per Subsection B of 19.15.17.1(B)(1)(b). Sample results are summarized below and the laboratory report is attached.

Table 1: C	losure Crite	ria and I	Results for	BGTs

Component	Test Method	Limit (mg/kg)	Result (mg/kg)
Benzene	EPA SW-846 Method	0.2	ND (<0.049)
	8021B or 8260B		
BTEX	EPA SW-846 Method	50	ND (<0.246)
	8021B or 8260B		
TPH	EPA SW-846 Method	100	ND (<4.9)
	8015M (Full Range) or		
	Method 418.1		
Chlorides	EPA SW-846 Method	Greater of 250 mg/kg or	ND (<7.5)
	300.1	background	

5. If KEC or the division determines that a release has occurred, then KEC shall comply with 19.15.3.116 NMAC (report release to the OCD) and 19.15.1.19 NMAC (soils will be excavated and OCD District Office approval to haul to the Envirotech Landfarm near Bloomfield, NM, OCD Permit NM-O 1-00 11, will be obtained).

There is no evidence of a release.

6. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then KEC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site. The division-prescribed soil cover, recontouring and re-vegetation requirements shall comply with Subsections G, H and I of 19.15.17.13 NMAC.

The pit has been backfilled with compacted, non-waste containing earthen material. The former pit is on a producing well pad. Soil cover, re-contouring, and re-vegetation will be implemented when the well pad is abandoned and reclaimed.

Soil Cover [19.15.17.13(H))

Upon completion of the tank removal and any necessary soil remediation, the excavation will be backfilled with non-waste earthen material consisting of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The surface will be recontoured to match the sites existing grade and prevent ponding of water and erosion of the cover material.

The pit has been backfilled with compacted, non-waste containing earthen material. The former pit is on a producing well pad. Soil cover, re-contouring, and re-vegetation will be implemented when the well pad is abandoned and reclaimed.

Revegetation [19.15.17.13(1)]

For those portions of the former BGT area no longer required for production activities, KEC will seed the disturbed areas the first growing season after the BGT area is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire, or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

Repeat seeding or planting will be continued until successful vegetative growth occurs. Note: KEC assumes the seeding stipulations including mix and seeding methods specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) or Land owner as part of a surface use agreement or APD are Division-approved methods unless notified by the Division of their unacceptability.

For those portions of the former pit area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The pit has been backfilled with compacted, non-waste containing earthen material. The former pit is on a producing well pad. Soil cover, re-contouring, and re-vegetation will be implemented when the well pad is abandoned and reclaimed.

Closure Notice [19.15.17.13(J) NMAC]

attached.

I. KEC shall notify the surface owner by certified mail, return receipt requested, that KEC plans to close a BOT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement.

The surface owner(s) has been notified by certified mail, return receipt requested. A copy of the notification letter and return receipt is attached.

2. KEC shall notify the appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include KEC's name and the location to be closed by unit letter, section, township and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

Appropriate and timely notifications were made to the division district office. Documentation is

Closure Report [19.15.17.13(K) NMAC]

Within 60 days of closure completion, KEC shall submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results; information required by 19.15.17 NMAC; a plot plan; and details on back-filling, capping and covering, where applicable. In the closure report, KEC shall certify that all information in the report and attachments is correct and that KEC has complied with all applicable closure requirements and conditions specified in the approved closure plan.

This document and attachments serve as the Closure Report.

Johnson, Don

From:

Johnson, Don

Sent:

Friday, July 20, 2012 11:01 AM

To:

OCD - Brandon Powell (brandon.powell@state.nm.us); OCD - Jonathan Kelly

Cc: Subject: Tadlock, Darlene; Radin, Jordan BGT Scheduled for Closure

Importance:

High

Brandon and Jonathan,

Koch Exploration Company, LLC plans to close the BGTs as listed below and as specified in the C-144 approved on 10/5/2011. We plan on covering the earthen pits once samples have been received from the Lab. Solder Miller will have a representative on site to complete the sampling once the existing tanks and blocks have been removed. We plan on completing the sampling next Thursday, July 26th, 2012. This e-mail will serve as notice as required in Closure Notice section of the plan. BLM, the surface owner was notified via Certified Mail, return requested as well.

WELL NAME	NO.	SEC	Town	RNG	LET	1/4-1/4	LSE.#	Latitude	Longitude	Footages
DRYDEN	1	28	28N	8W	D	NW/NW	NM-013861	N36° 38' 15"	W107° 41' 32"	800 FNL & 840 F
				 						1800 FSL & 1100
DRYDEN	2	22	28N	8W	<u> </u>	NW/SW	NM-013861	N36° 38' 40"	W107° 40' 26"	FWL

Please let me know if you have any questions or comments.

Thank you

Don Johnson

Koch Exploration Company, LLC P.O. Box 489 Aztec, NM 87410

Office: 505-334-9111 Mobile: 505-320-0819



KOCH EXPLORATION COMPANY LLC

July 20, 2012

CERTIFIED MAIL, RETURN RECEIPT

BLM 6251 College BLVD, Suite A Farmington, NM 87402

To Whom it May Concern:

This letter serves as notice according to NMAC 19.15.17.13(J) of Koch Exploration Company, LLC's (KEC) intent to close the below grade tanks at Dryden 1 (API #30-045-24214, S28, T28N, R8W, NW/NW), and Dryden 2 (API #30-045-24232, S22, T28N, R8W, NW/SW).

KEC intends to close the below grade tanks according to the guidelines of NMAC 19.15.17.13.

Should you have questions or need additional information, please give me a call at (505) 334-9111.

Sincerely,

Donald Johnson
Operations Manger

card to you. Atlach this form to the front of the malpinea, or on the hack if space securit. While, "Renum Receipt Requested" on the mallplace below the article with feature Receipt will show to whom the article was delivered and delivered.	terns 1 and 0: 2 for additional services, terns 1, 4a, and 4b, terns 1, 4a, and 4b, terns 1, 4a, and 4b, terns 1 and and address on the reverse of this form so that we can return this form to the front of the malphose, or on the hack if space down not um Receipt Requested (on the malphace below the article number.			
5 3 Article Addressed to: BLM 6251 College BLVD, Scute A Farmington, NM 87402	4b. Service ☐ Register ☐ Express	OS 20 0020 49449 Type ed	for using Return	
5. Received By: (Print Name) 6. Signature: (Aridressee or Agent) X Shann Fach: PS Form 3811, December 1994	8. Addresse and fee i.	pe's Address (Only il requested s paid) Domestic Return Receip	Thenk you	

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July 26, 2012

Koch Exploration Company, LLC Dryden #1 and #2

Below Grade Tank Clearance Sampling

Denny Foust of SMA met Don Johnson of Koch Exploration Company, LLC (KEC)in Bloomfield, New Mexico at 8:00. They traveled to the Dryden #2 location L-28T28N-R08W, API# 30-045-24232. Don Johnson reviewed KEC's safety policy with Mr. Foust. After the safety briefing at 9:00 a five point composite sample was collected from the Below Grade Tank (BGT) pit. No staining was obvious. The samples were collected in a five point pattern one foot below the existing surface of the BGT pit which was 4 feet deep and 20'X20'. The sample pattern is basically towards each corner and one spot near the center. The BGT pit is south of the separator. There was no staining in the pit.

A Total Chloride background sample was collected 1 foot below the surface outside the location berms. The sample location was south of the above ground production tank.

Traveled to the KEC Dryden #1, D-22-T28N-R08W, API# 24214 arrived at 10:10, proceeded to sample the BGT pit which was 4 feet deep and 20'X30' in dimensions. A five point composite sample was taken from approximately one foot below the bottom of the BGT pit in a pattern with points toward each corner and one point located near the pit center. The BGT pit is east of the separator. No staining was obvious in the pit. There was rain in the area July 25, 2012, the night before sampling.

A Total Chloride background sample was collected 1 foot below the surface off the location site. The sample location is north of the access road and east of the location.

SAMPLE RESULTS:

Dryden	#1		Dryden #2	
8015B	GRO	ND	GRO	ND
	DRO	ND	DRO	ND
8021B	Benzene	ND	Benzene	ND
	Toluene	ND	Toluene	ND
	Ethylbenzene	ND	Ethylbenzene	ND
	Total Xylenes	ND	Total Xylenes	ND
418.1	TPH	ND	ТРН	ND
300.0	Chloride	ND	Chloride	ND
	Background		Background	
	Chloride	ND	Chloride	ND

Please feel free to call with any questions at 505-325-7535.

Denny Foust

Senior Geologist

Jamy & Facult

Attachments (3): Dryden #1 Plat, Dryden #2 Plat and Analytical



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website. www.hallenvironmental.com

August 03, 2012

Denny Foust Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401

TEL: (505) 325-5667 FAX (505) 327-1496

RE: KOCH Dryden #1 & Dryden #2 BGT OrderNo.: 1207C45

Dear Denny Foust:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/27/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1207C45

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: KOCH Dryden #1 & Dryden #2 BGT

Lab ID: 1207C45-001

Matrix: SOIL

Collection Date: 7/26/2012 9:00:00 AM **Received Date:** 7/27/2012 10:03:00 AM

Client Sample ID: Dryden #2 BGT

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2012 9:05:38 AM
Surr [.] DNOP	103	77 6-140	%REC	1	7/31/2012 9·05:38 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4 9	mg/Kg	1	7/31/2012 4:02·05 PM
Surr: BFB	99.1	84-116	%REC	1	7/31/2012 4:02·05 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0 049	mg/Kg	1	7/31/2012 4.02:05 PM
Toluene	ND	0.049	mg/Kg	1	7/31/2012 4·02:05 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2012 4:02.05 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2012 4:02:05 PM
Surr 4-Bromofluorobenzene	105	80-120	%REC	1	7/31/2012 4:02:05 PM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	7.5	mg/Kg	5	8/1/2012 12:14.49 PM
EPA METHOD 418.1: TPH					Analyst: JMP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	7/31/2012

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 1 of 9

Lab Order 1207C45

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Dryden #2 Chloride Background

Project: KOCH Dryden #1 & Dryden #2 BGT

Collection Date: 7/26/2012 9:45:00 AM

Lab ID: 1207C45-002

Matrix: SOIL

Received Date: 7/27/2012 10:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS			.		Analyst: SRM
Chloride	ND	7.5	mg/Kg	5	8/1/2012 12:39·39 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 2 of 9

Lab Order 1207C45

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Dryden #1 BGT

Project:

KOCH Dryden #1 & Dryden #2 BGT

Collection Date: 7/26/2012 10:15:00 AM

Lab ID:

1207C45-003

Matrix: SOIL

Received Date: 7/27/2012 10:03:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/31/2012 9:27·32 AM
Surr: DNOP	104	77.6-140	%REC	1	7/31/2012 9:27:32 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4 9	mg/Kg	1	7/31/2012 5.57 12 PM
Surr BFB	98.3	84-116	%REC	1	7/31/2012 5:57:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	7/31/2012 5.57:12 PM
Toluene	ND	0.049	mg/Kg	1	7/31/2012 5.57:12 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2012 5.57:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2012 5:57:12 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	7/31/2012 5:57·12 PM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	7.5	mg/Kg	5	8/1/2012 1.04:29 PM
EPA METHOD 418.1: TPH					.Analyst: JMP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	7/31/2012

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 3 of 9

Lab Order 1207C45

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Dryden #1 Chloride Background

Project: KOCH Dryden #1 & Dryden #2 BGT

Collection Date: 7/26/2012 11:00:00 AM

Lab ID: 1207C45-004

Matrix: SOIL

Received Date: 7/27/2012 10:03:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	7 5	mg/Kg	5	8/1/2012 1:29:18 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207C45

06-Aug-12

Client:

Souder, Miller and Associates

Project:

KOCH Dryden #1 & Dryden #2 BGT

Sample ID MB-3128

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID. PBS

Batch ID: 3128

PQL

RunNo: 4589

Prep Date: 8/1/2012

Analysis Date: 8/1/2012

SeqNo: 128726

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

HighLimit

%RPD **RPDLimit** Qual

Chloride

ND 1.5

Sample ID LCS-3128

SampType: LCS Batch ID: 3128

RunNo 4589

Client ID: LCSS Prep Date: 8/1/2012

Analysis Date: 8/1/2012

SeqNo: 128727

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Analyte

SPK value SPK Ref Val %REC LowLimit 1.5

0

98.1

15.00

Chloride

15

110

Qualifiers:

R

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#.

1207C45

06-Aug-12

Client:

Souder, Miller and Associates

Project:

KOCH Dryden #1 & Dryden #2 BGT

Sample ID MB-3091

SampType: MBLK

TestCode. EPA Method 418.1: TPH

Client ID:

PBS

LCSS

Batch ID: 3091

RunNo: 4530

20

Prep Date 7/30/2012 Analysis Date. 7/31/2012

SeqNo: 126997

Units: mg/Kg

Analyte

Client ID

PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDL**ımit Qual

Petroleum Hydrocarbons, TR

ND

SampType: LCS

Batch ID: 3091

TestCode. EPA Method 418.1: TPH

Prep Date

Sample ID LCS-3091

RunNo: 4530

Units: mg/Kg

Analysis Date: 7/31/2012 7/30/2012

100.0

SeqNo: 127012

103

Analyte

Result PQL 100

Result

100

SPK value SPK Ref Val %REC

HighLimit LowLimit

RPDLimit Qual

Petroleum Hydrocarbons, TR

Sample ID LCSD-3091 SampType: LCSD

TestCode: EPA Method 418.1: TPH

80

Prep Date: 7/30/2012

LCSS02

Batch ID. 3091

RunNo: 4530 SeqNo: 127016

Units: mg/Kg

120

%RPD

Analyte Petroleum Hydrocarbons, TR

Client ID

Analysis Date 7/31/2012

20

SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDL**imit

> 2 39 20

PQL 20 100 0

101

LowLimit

120

Qualifiers:

R

*/X Value exceeds Maximum Contaminant Level

E Value above quantitation range

Analyte detected below quantitation limits J RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Reporting Detection Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C45

06-Aug-12

Client:

Souder, Miller and Associates

Project:

KOCH Dryden #1 & Dryden #2 BGT

SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics										
Batch ID: 3074	RunNo: 4495										
Analysis Date: 7/30/2012	SeqNo: 126019	Units: %REC									
Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
9.7 10.00	96.8 77.6	140									
	Analysis Date: 7/30/2012 Result PQL SPK value	Analysis Date: 7/30/2012 SeqNo: 126019 Result PQL SPK value SPK Ref Val %REC LowLimit	Analysis Date: 7/30/2012 SeqNo: 126019 Units: %REC Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD								

Sample ID LCS-3074	SampType.	LCS	Tes	tCode: E	e: EPA Method 8015B: Diesel Range Organics												
Client ID. LCSS	Batch ID:	3074	F	RunNo: 4495													
Prep Date: 7/27/2012	Analysis Date [.]	S	SeqNo: 126020			Units: %REC											
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLımit	HıghLımit	%RPD	RPDLimit	Qual '								
Surr. DNOP	4.0	5 000		80.6	77.6	140											

Sample ID MB-3088	SampT	ype ME	BLK	Test	TestCode: EPA Method 8015B: Diesel Range Organics										
Client ID: PBS	Batch	Batch ID: 3088 RunNo: 4495													
Prep Date 7/30/2012	Analysis Date: 7/30/2012			S	eqNo [.] 1	26084	Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	ND	10							···						
Surr ⁻ DNOP	9.5		10.00		95 4	77.6	140								

Sample ID LCS-3088	SampT	ype: LC	s	TestCode EPA Method 8015B: Diesel Range Organics									
Client ID: LCSS	Batch	1D. 30	88	F	RunNo: 4								
Prep Date 7/30/2012	Analysis Date: 7/30/2012			9	SeqNo. 1	26126	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	35	10	50.00	0	69.1	52.6	130						
Surr. DNOP	4.0		5.000		79.8	77.6	140						

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C45

06-Aug-12

Client:

Souder, Miller and Associates

Project:

KOCH Dryden #1 & Dryden #2 BGT

Sample ID MB-3090

SampType MBLK

TestCode: EPA Method 8015B: Gasoline Range

84

Client ID: PBS

Batch ID: 3090

PQL

RunNo: 4573

Prep Date: 7/30/2012

Analysis Date: 7/31/2012

Units: mg/Kg

SeqNo: 128314

Surr BFB

SPK value SPK Ref Val

%REC LowLimit HighLimit %RPD

Gasoline Range Organics (GRO)

ND 980 5.0 1000

97.8

RPDLimit

Qual

Surr BFB

Sample ID LCS-3090

SampType. LCS

116 TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS

Batch ID: 3090

5.0

RunNo: 4573

Prep Date: 7/30/2012

Analysis Date: 7/31/2012 **PQL**

SeqNo: 128315 %REC

Units: mg/Kg HighLımıt

115

116

Result Gasoline Range Organics (GRO)

24 1000 25.00 1000

SPK value SPK Ref Val

94.2 103

LowLimit

85 84 %RPD **RPDLimit** Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level

E Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C45

06-Aug-12

Client:

Souder, Miller and Associates

Project:

KOCH Dryden #1 & Dryden #2 BGT

Project:	KOCH D	ryden #1 &	₹ Dryde	en #2 BGT											
Sample ID	1207C45-001AMS	SampT	ype: M \$	3	Test	TestCode: EPA Method 8021B: Volatiles									
Client ID:	Dryden #2 BGT	Batch	ID: 30	90	F	lunNo. 4	573								
Prep Date:	7/30/2012	Analysis D	ate: 7/	31/2012	S	SeqNo: 1	28355	Units: mg/k	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HıghLimit	%RPD	RPDLimit	Qual				
Benzene	-	0.97	0.049	0 9775	0	99.3 67.2		113							
Toluene		0.99	0.049	0.9775	0	101	62.1	116							
Ethylbenzene		10	0.049	0.9775	0	104	67.9	127							
Xylenes, Total		3.1	0.098	2.933	0	105	60.6	134							
Surr 4-Brom	ofluorobenzene	1.1		0.9775		110	80	120							
Sample ID	1207C45-001AMS	D SampT	ype. MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID:	Dryden #2 BGT	Batch	1D: 30	90	F	RunNo: 4	573								
Prep Date:	7/30/2012	Analysis D	ate: 7/	/31/2012	S	28356	Units: mg/k								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.98	0 048	0.9506	0	103	67.2	113	1.09	14.3					
Toluene		1.0	0.048	0.9506	0	106	62 1	116	2 29	15.9					
Ethylbenzene		1 0	0 048	0.9506	0	109	67.9	127	2.08	14.4					
Xylenes, Total		3.1	0.095	2.852	0	110	60.6	134	1.83	12.6					
Surr 4-Brom	nofluorobenzene	11		0.9506		112	80	120	0	0					
Sample ID	MB-3090	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles	_					
Client ID:	PBS	Batch	n ID: 30	90	F										
Prep Date:	7/30/2012	Analysis D	ate [.] 7/	/31/2012	8	SeqNo. 1	28369	Units. mg/l	K g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HıghLimit	%RPD	RPDLimit	Qual				
Benzene		ND	0.050		. .										
Toluene		ND	0 050												
Ethylbenzene		ND	0.050												
Xylenes, Total		ND	0.10												
Surr 4-Brom	nofluorobenzene	1.0		1 000		104	80	120							
Sample ID	LCS-3090	SampT	ype LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID	LCSS	Batch	1D. 30	90	F	RunNo: 4	573								
Prep Date:	7/30/2012	Analysis D	ate: 7,	/31/2012	5	SeqNo: 1	28370	Units: mg/l	K g						
Analyte_		Result	PQL		SPK Ref Val	%REC	LowLimit	HıghLimit	%RPD	RPDLimit	Qual				
Benzene		0.92	0.050	1.000	0	92.2	76.3	117							
Toluene		0.95	0.050	1 000	0	94.6	80	120							
Ethylbenzene		0.95	0.050	1 000	0	94.8	77	116							
Xylenes, Total		2.9	0.10	3.000	0	97.7	76.7	117							
Surr: 4-Brom	nofluorobenzene	1.1		1.000		109	80	120							

Qualifiers:

*/X Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Hall Environmental Analysis Laborator) 4901 Hawkins NE Albuquerque, NM 87105 TEL. 505-345-3975 FAX: 505-345-410

Website: www.hallenvironmental com

Sample Log-In Check List

Client Name: Work Order Number, 1207C45 07/27//2 Received by/date: Logged By Anne Thorne 7/27/2012 10:03:00 AM an Am Completed By: 7/27/2012 **Anne Thorne** Reviewed By: Chain of Custody Not Present 🗹 Yes No 🗌 1 Were seals intact? Yes 🔽 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log in Yes 🗹 No 🗌 NA 🗀 4. Coolers are present? (see 19. for cooler specific information) Yes V No NA 🗌 5. Was an attempt made to cool the samples? Yes 🗹 No 🗌 NA 🔲 6. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗌 7. Sample(s) in proper container(s)? Yes 🔽 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🗹 No 🗌 9 Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? Yes No V NA 🗌 Yes 🗌 No 🗀 No VOA Vials 🗹 11. VOA vials have zero headspace? Yes D No 🗹 12. Were any sample containers received broken? # of preserved Yes 🗹 No 🗌 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗌 (<2 or >12 unless noted) Yes 🗹 No 🗌 Adjusted? 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? Yes 🗹 No 🗌 (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No 🗆 NA 🗹 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Temp °C | Condition | Seal Intact | Seal No | Cooler No Seal Date Signed By 2.1 Good

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lí	necessary,	amples sub	mitted to Hall Envir	onmental may be subco	ontracted to other ac	credited laboratorie	s. This serves as	s notice of this	possib	olity. A	Any su	b-contr	acted	data w	nll be d	clearly	notate	ed on t	he an	atytical	report.		



