

Highlander Environmental Corp.  
Pit Closure Sampling Report

**Job Number:**

**Client:**

Well Name

**API#**

### Depth of Pit

Depth to

## Groundwater

Orientation of pit N S E W

All pit sample depths are below pit bottom (BPB)

[illegible]

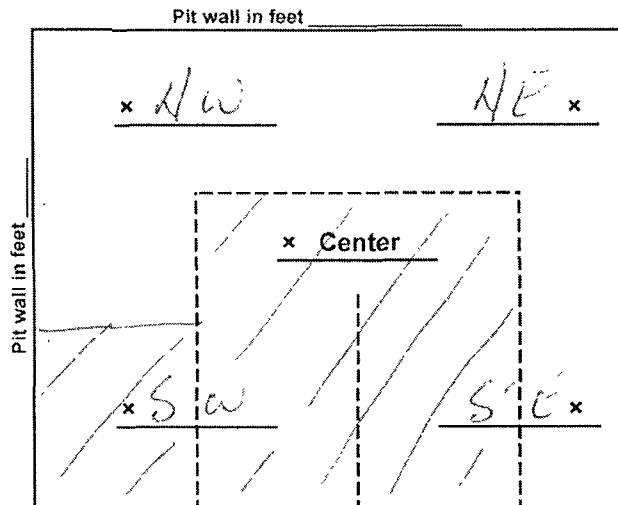
DNR- Did not run at lab.

BGS- Below Ground Surface


BPB- Below Pit Bottom

Dug out Center to 20', line to Bear Trench  
Place Soil from Center and 2-4' from SW corner  
in New Trench, pour with 20 mil plastic &  
Backfill. Mike Bratcher 11-27-07

Highlander Environmental Corp.  
Pit Sample Location Plat



x \_\_\_\_\_ Indicates Sample Location  
(Name by quarter i.e. NW, NE etc)

 Draw in North Arrow

Depth of pit in feet 2'

• Wellhead

Well Pad

Client: ACB Oper. LLC  
Well Name: GJ West Prop #164  
API# 30-015-35654

## Summary Report

Garv Miller  
Highlander Environmental Services  
1910 N Big Spring Street  
Midland, TX, 79705

Report Date: November 30, 2007

Work Order: 7112830



Project Location: Eddy County, NM  
Project Name: COG-GJ West #164  
Project Number: 3302

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
143833	NE 2'	soil	2007-11-26	00:00	2007-11-28
143834	NW 2'	soil	2007-11-26	00:00	2007-11-28
143835	SE 2'	soil	2007-11-26	00:00	2007-11-28
143836	SW 5'	soil	2007-11-26	00:00	2007-11-28
143837	Center 20'	soil	2007-11-26	00:00	2007-11-28

### Sample: 143833 - NE 2'

Param	Flag	Result	Units	RL
Chloride		160	mg/Kg	2.00

### Sample: 143834 - NW 2'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

### Sample: 143835 - SE 2'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

### Sample: 143836 - SW 5'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

### Sample: 143837 - Center 20'

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296  
*This is only a summary. Please, refer to the complete report package for quality control data.*

Report Date: November 30, 2007  
3302

Work Order: 7112830  
COG-GJ West #164

Page Number: 2 of 2  
Eddy County, NM

Param	Flag	Result	Units	RL
Chloride		223	mg/Kg	2.00

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



Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

OCT 05 2007

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

OCD-ARTESIA

Operator **COG Operating LLC** Telephone: **432-685-4332** e-mail address: **kcarrillo@conchoresources.com**  
Address **550 W. Texas, Suite 1300** **Midland, TX 79701**  
Facility or well name: **G J West Coop Unit #164** API #: **30-015-35654** U/L or Qtr/Qtr **L** Sec **21** T **17S** R **29E**  
County **EDDY** Latitude **32.819039° N** Longitude **104.084654° W** NAD 1927 ☒ 1983 ☐  
Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type Synthetic <input checked="" type="checkbox"/> Thickness <b>12</b> mil Clay <input type="checkbox"/> Pit Volume <b>3000</b> bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water) <b>110'</b>	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points)
Wellhead protection area (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)
	Ranking Score (Total Points) <b>0 points</b>

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_ (3) Attach a general description of remedial action taken including remediation start date and end date (4) Groundwater encountered No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments	COG Operating LLC proposes to close the drilling pit as follows.
1.	Remove fluids from pit.
2.	A deep trench pit will be constructed next to the existing reserve pit and lined with a 12 mil liner. The contents will be encapsulated in this pit and the liner will be folded over the mud & cuttings.
3.	Cover liner w/20 mil liner w/ excess of 3' on all sides as per option IV.B.3 (b) of Pit and Below-Grade Tank Guidelines
4.	Cover w/ a minimum of 3' of native soil.
5.	Contour pit to prevent erosion & ponding of rainwater.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date **10-04-07**

Printed Name/Title **Kanicia Carrillo, Regulatory Analyst**

Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Samples are to be obtained from Pit area and analysis submitted to NMOCD prior to back-filling.  
NOTIFY NMOCD 24 HOURS PRIOR TO OBTAINING SAMPLES.

Signature

Signed By

Date

OCT 12 2007

If burial trench is to be constructed in pit area, samples are to be obtained and analyses submitted to OCD PRIOR to lining trench.